

# FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO  
BASF Corporation

AUTHORIZING THE OPERATION OF  
BASF Freeport Site  
OXO/Syngas Alcohols Complex  
All Other Basic Organic Chemical Manufacturing

LOCATED AT  
Brazoria County, Texas  
Latitude 29° 0' 3" Longitude 95° 23' 47"  
Regulated Entity Number: RN100218049

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No:     O1928     Issuance Date: \_\_\_\_\_

\_\_\_\_\_  
For the Commission

## Table of Contents

| Section   | Page |
|---|------|
| General Terms and Conditions .....  | 1    |
| Special Terms and Conditions: .....   | 1    |
| Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping<br>and Reporting..... | 1    |
| Additional Monitoring Requirements .....  | 6    |
| New Source Review Authorization Requirements .....  | 6    |
| Compliance Requirements.....  | 7    |
| Risk Management Plan .....  | 9    |
| Protection of Stratospheric Ozone .....   | 9    |
| Permit Location .....   | 9    |
| Permit Shield (30 TAC § 122.148) .....  | 9    |
| Attachments .....   | 10   |
| Applicable Requirements Summary.....  | 11   |
| Additional Monitoring Requirements .....  | 53   |
| Permit Shield .....   | 68   |
| New Source Review Authorization References .....  | 72   |
| Appendix A .....  | 78   |
| Acronym List .....  | 79   |

## **General Terms and Conditions**

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

## **Special Terms and Conditions:**

### **Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting**

1. Permit holder shall comply with the following requirements:
  - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
  - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
  - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
  - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.

- E. Emission units subject to 40 CFR Part 63, Subpart DDDDD, as identified in the attached Applicable Requirements Summary table, are subject to 30 TAC Chapter 113, Subchapter C, §113.1130, which incorporates the 40 CFR Part 63 Subpart by reference.
  - F. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 3 (Mass Emission Cap and Trade Program) Requirements:
    - (i) Title 30 TAC § 101.352 (relating to General Provisions)
    - (ii) Title 30 TAC § 101.353 (relating to Allocation of Allowances)
    - (iii) Title 30 TAC § 101.354 (relating to Allowance Deductions)
    - (iv) Title 30 TAC § 101.356 (relating to Allowance Banking and Trading)
    - (v) Title 30 TAC § 101.359 (relating to Reporting)
    - (vi) Title 30 TAC § 101.360 (relating to Level of Activity Certification)
    - (vii) The terms and conditions by which the emission limits are established to meet or exceed the cap are applicable requirements of this permit
  - G. The permit holder shall comply with the following 30 TAC Chapter 101, Subchapter H, Division 6 (Highly Reactive Volatile Organic Compound Emissions Cap and Trade Program) requirements:
    - (i) Title 30 TAC § 101.392 (relating to Exemptions)
    - (ii) Title 30 TAC § 101.401 (relating to Level of Activity Certification)
2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
- A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
  - B. Title 30 TAC § 101.3 (relating to Circumvention)
  - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
  - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
  - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
  - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
  - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
  - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
  - I. Title 30 TAC § 101.222 (relating to Demonstrations)

- J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
- A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
- (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
  - (ii) Title 30 TAC § 111.111(a)(1)(E)
  - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
  - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO<sub>x</sub>, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that does not obstruct the transmission of light. Vents, as specified in the "Applicable Requirements Summary" attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:
    - (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
    - (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
    - (3) Records of all observations shall be maintained.
    - (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear

view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer's eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.

(5) Compliance Certification:

- (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
- (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.
- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.

- B. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- C. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
  - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
  - (ii) Sources with an effective stack height ( $h_e$ ) less than the standard effective stack height ( $H_e$ ), must reduce the allowable emission level by multiplying it by  $[h_e/H_e]^2$  as required in 30 TAC § 111.151(b)

- (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- 4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: Storage of Volatile Organic Compounds, the permit holder shall comply with the requirements of 30 TAC § 115.112(e)(1).
- 5. For industrial wastewater specified in 30 TAC Chapter 115, Subchapter B, the permit holder shall comply with the following requirements for wastewater drains, junction boxes, lift stations and weirs:
  - A. Title 30 TAC § 115.142(1)(E) and (F) (relating to Control Requirements)
  - B. Title 30 TAC § 115.146 (relating to Recordkeeping Requirements)
- 6. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 60, unless otherwise stated in the applicable subpart:
  - A. Title 40 CFR § 60.7 (relating to Notification and Recordkeeping)
  - B. Title 40 CFR § 60.8 (relating to Performance Tests)
  - C. Title 40 CFR § 60.11 (relating to Compliance with Standards and Maintenance Requirements)
  - D. Title 40 CFR § 60.12 (relating to Circumvention)
  - E. Title 40 CFR § 60.13 (relating to Monitoring Requirements)
  - F. Title 40 CFR § 60.14 (relating to Modification)
  - G. Title 40 CFR § 60.15 (relating to Reconstruction)
  - H. Title 40 CFR § 60.19 (relating to General Notification and Reporting Requirements)
- 7. The permit holder shall comply with the following requirements for units subject to any subpart of 40 CFR Part 61, unless otherwise stated in the applicable subpart:
  - A. Title 40 CFR § 61.05 (relating to Prohibited Activities)
  - B. Title 40 CFR § 61.07 (relating to Application for Approval of Construction or Modification)
  - C. Title 40 CFR § 61.09 (relating to Notification of Start-up)
  - D. Title 40 CFR § 61.10 (relating to Source Reporting and Request Waiver)
  - E. Title 40 CFR § 61.12 (relating to Compliance with Standards and Maintenance Requirements)
  - F. Title 40 CFR § 61.13 (relating to Emissions Tests and Waiver of Emission Tests)
  - G. Title 40 CFR § 61.14 (relating to Monitoring Requirements)
  - H. Title 40 CFR § 61.15 (relating to Modification)

- I. Title 40 CFR § 61.19 (relating to Circumvention)
- 8. For facilities where total annual benzene quantity from waste is less than 1 megagram per year and subject to emission standards in 40 CFR Part 61, Subpart FF, the permit holder shall comply with the following requirements:
  - A. Title 40 CFR § 61.355(a)(1)(iii), (a)(2), (a)(5)(i) - (ii), (a)(6), (b), and (c)(1) - (3) (relating to Test Methods, Procedures, and Compliance Provisions), for calculation procedures
  - B. Title 40 CFR § 61.356(a) (relating to Recordkeeping Requirements)
  - C. Title 40 CFR § 61.356(b), and (b)(1) (relating to Recordkeeping Requirements)
  - D. Title 40 CFR § 61.357(a), and (b) (relating to Reporting Requirements)
- 9. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
- 10. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

#### **Additional Monitoring Requirements**

- 11. The permit holder shall comply with the periodic monitoring requirements as specified in the attached "Periodic Monitoring Summary" upon issuance of the permit. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permit holder shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. The permit holder may elect to collect monitoring data on a more frequent basis and average the data, consistent with the averaging time or minimum frequency specified in the "Periodic Monitoring Summary," for purposes of determining whether a deviation has occurred. However, the additional data points must be collected on a regular basis. In no event shall data be collected and used in particular instances to avoid reporting deviations. Deviations shall be reported according to 30 TAC § 122.145 (Reporting Terms and Conditions).

#### **New Source Review Authorization Requirements**

- 12. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule, standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
  - A. Are incorporated by reference into this permit as applicable requirements



- B. Shall be located with this operating permit
  - C. Are not eligible for a permit shield
13. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
  14. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).
  15. The permit holder shall comply with the following requirements for Air Quality Standard Permits:
    - A. Registration requirements listed in 30 TAC § 116.611, unless otherwise provided for in an Air Quality Standard Permit
    - B. General Conditions listed in 30 TAC § 116.615, unless otherwise provided for in an Air Quality Standard Permit
    - A. Requirements of the non-rule Air Quality Standard Permit for Pollution Control Projects

### **Compliance Requirements**

16. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
17. Permit holder shall comply with the following 30 TAC Chapter 117 requirements:
  - A. The permit holder shall comply with the compliance schedules and submit written notification to the TCEQ Executive Director as required in 30 TAC Chapter 117, Subchapter H, Division 1:
    - (i) For sources in the Houston-Galveston-Brazoria Nonattainment area, 30 TAC § 117.9020:
      - (1) Title 30 TAC § 117.9020(2)(A), (C), and (D)
  - B. The permit holder shall comply with the Initial Control Plan unit listing requirement in 30 TAC § 117.350(c) and (c)(1).

- C. The permit holder shall comply with the requirements of 30 TAC § 117.354 for Final Control Plan Procedures for Attainment Demonstration Emission Specifications and 30 TAC § 117.356 for Revision of Final Control Plan.
18. Use of Emission Credits to comply with applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) Offsets for Title 30 TAC Chapter 116
  - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)-(d)
    - (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
    - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)-(d)
    - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
    - (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)
19. Use of Discrete Emission Credits to comply with the applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
    - (i) Title 30 TAC Chapter 115
    - (ii) Title 30 TAC Chapter 117
    - (iii) If applicable, offsets for Title 30 TAC Chapter 116
    - (iv) Temporarily exceed state NSR permit allowables
  - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
    - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)

- (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
- (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)
- (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
- (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

### **Risk Management Plan**

20. For processes subject to 40 CFR Part 68 and specified in 40 CFR § 68.10, the permit holder shall comply with the requirements of the Accidental Release Prevention Provisions in 40 CFR Part 68. The permit holder shall submit to the appropriate agency either a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR § 68.10(a), or as part of the compliance certification submitted under this permit, a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of a risk management plan.

### **Protection of Stratospheric Ozone**

21. Permit holders at a site subject to Title VI of the FCAA Amendments shall meet the following requirements for protection of stratospheric ozone:
- A. Any on site servicing, maintenance, and repair on refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants or non-exempt substitutes shall be conducted in accordance with 40 CFR Part 82, Subpart F. Permit holders shall ensure that repairs on or refrigerant removal from refrigeration and nonmotor vehicle air-conditioning appliances using ozone-depleting refrigerants are performed only by properly certified technicians using certified equipment. Records shall be maintained as required by 40 CFR Part 82, Subpart F.

### **Permit Location**

22. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

### **Permit Shield (30 TAC § 122.148)**

23. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

## **Attachments**

**Applicable Requirements Summary**

**Additional Monitoring Requirements**

**Permit Shield**

**New Source Review Authorization References**

### **Applicable Requirements Summary**

|                           |           |
|---------------------------|-----------|
| <b>Unit Summary .....</b> | <b>12</b> |
|---------------------------|-----------|

|  |           |
|--|-----------|
| <b>Applicable Requirements Summary .....</b> | <b>16</b> |
|--|-----------|

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

### Unit Summary

| Unit/Group/<br>Process ID<br>No. | Unit Type   | Group/Inclusive<br>Units | SOP Index<br>No. | Regulation                               | Requirement Driver      |
|----------------------------------|---|--------------------------|------------------|--|-------------------------|
| 5-1-05                           | Emission Points/Stationary<br>Vents/Process Vents | N/A                      | 115B-1           | 30 TAC Chapter 115, Vent Gas Controls    | No changing attributes. |
| 5-1-31                           | Emission Points/Stationary<br>Vents/Process Vents | N/A                      | 111A-1           | 30 TAC Chapter 111, Visible Emissions    | No changing attributes. |
| 5-1-31                           | Emission Points/Stationary<br>Vents/Process Vents | N/A                      | 115B-1           | 30 TAC Chapter 115, Vent Gas Controls    | No changing attributes. |
| 5-1-FL90                         | Flares  | N/A                      | 111A-1           | 30 TAC Chapter 111, Visible Emissions    | No changing attributes. |
| 5-1-H1                           | Process Heaters/Furnaces                          | N/A                      | 117B-1           | 30 TAC Chapter 117, Subchapter B         | No changing attributes. |
| 5-1-H1                           | Process Heaters/Furnaces                          | N/A                      | 63DDDDD-1        | 40 CFR Part 63, Subpart DDDDD            | No changing attributes. |
| 5-2-02                           | Emission Points/Stationary<br>Vents/Process Vents | N/A                      | 115B-1           | 30 TAC Chapter 115, Vent Gas Controls    | No changing attributes. |
| 5-2-03                           | Emission Points/Stationary<br>Vents/Process Vents | N/A                      | 115B-1           | 30 TAC Chapter 115, Vent Gas Controls    | No changing attributes. |
| 5-2-04                           | Emission Points/Stationary<br>Vents/Process Vents | N/A                      | 115B-1           | 30 TAC Chapter 115, Vent Gas Controls    | No changing attributes. |
| 5-2-05                           | Emission Points/Stationary<br>Vents/Process Vents | N/A                      | 115B-1           | 30 TAC Chapter 115, Vent Gas Controls    | No changing attributes. |
| 5-2-CT20                         | Industrial Process Cooling<br>Towers              | N/A                      | 115H-1           | 30 TAC Chapter 115, HRVOC Cooling Towers | No changing attributes. |
| 5-2-D111                         | Storage Tanks/Vessels                             | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs      | No changing attributes. |
| 5-2-D122                         | Storage Tanks/Vessels                             | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs      | No changing attributes. |
| 5-2-D122                         | Storage Tanks/Vessels                             | N/A                      | 60Kb-1           | 40 CFR Part 60, Subpart Kb               | No changing attributes. |
| 5-2-D124                         | Storage Tanks/Vessels                             | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs      | No changing attributes. |
| 5-2-D155                         | Storage Tanks/Vessels                             | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs      | No changing attributes. |
| 5-2-D202                         | Storage Tanks/Vessels                             | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs      | No changing attributes. |

### Unit Summary

| Unit/Group/<br>Process ID<br>No. | Unit Type               | Group/Inclusive<br>Units | SOP Index<br>No. | Regulation   | Requirement Driver      |
|----------------------------------|-------------------------|--------------------------|------------------|--|-------------------------|
| 5-2-D204                         | Storage Tanks/Vessels   | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs                | No changing attributes. |
| 5-2-D204                         | Storage Tanks/Vessels   | N/A                      | 60Kb-1           | 40 CFR Part 60, Subpart Kb                         | No changing attributes. |
| 5-2-D208                         | Storage Tanks/Vessels   | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs                | No changing attributes. |
| 5-2-D208                         | Storage Tanks/Vessels   | N/A                      | 60Kb-1           | 40 CFR Part 60, Subpart Kb                         | No changing attributes. |
| 5-2-D209                         | Storage Tanks/Vessels   | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs                | No changing attributes. |
| 5-2-D209                         | Storage Tanks/Vessels   | N/A                      | 60Kb-1           | 40 CFR Part 60, Subpart Kb                         | No changing attributes. |
| 5-2-FL200                        | Flares                  | N/A                      | 111A-1           | 30 TAC Chapter 111, Visible Emissions              | No changing attributes. |
| 5-2-FL200                        | Flares                  | N/A                      | 115H-1           | 30 TAC Chapter 115, HRVOC Vent Gas                 | No changing attributes. |
| 5-2-FL200                        | Flares                  | N/A                      | 60A-1            | 40 CFR Part 60, Subpart A                          | No changing attributes. |
| 5-2-FL200A                       | Flares                  | N/A                      | 111A-1           | 30 TAC Chapter 111, Visible Emissions              | No changing attributes. |
| 5-2-FL200A                       | Flares                  | N/A                      | 115H-1           | 30 TAC Chapter 115, HRVOC Vent Gas                 | No changing attributes. |
| 5-2-FL200A                       | Flares                  | N/A                      | 60A-1            | 40 CFR Part 60, Subpart A                          | No changing attributes. |
| 5-2-FUGITIV                      | Fugitive Emission Units | N/A                      | 115H-1           | 30 TAC Chapter 115, HRVOC Fugitive Emissions       | No changing attributes. |
| 5-2-FUGITIV                      | Fugitive Emission Units | N/A                      | 115D-1           | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | No changing attributes. |
| 5-2-FUGITIV                      | Fugitive Emission Units | N/A                      | 60VV-1           | 40 CFR Part 60, Subpart VV                         | No changing attributes. |
| 5-2-R100                         | Reactor                 | N/A                      | 60RRR-1          | 40 CFR Part 60, Subpart RRR                        | No changing attributes. |
| 5-3-D302                         | Storage Tanks/Vessels   | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs                | No changing attributes. |
| 5-3-D303                         | Storage Tanks/Vessels   | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs                | No changing attributes. |
| 5-3-D309                         | Storage Tanks/Vessels   | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs                | No changing attributes. |
| 5-3-D325                         | Storage Tanks/Vessels   | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs                | No changing attributes. |
| 5-3-D326A                        | Storage Tanks/Vessels   | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs                | No changing attributes. |
| 5-3-D326B                        | Storage Tanks/Vessels   | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs                | No changing attributes. |

### Unit Summary

| Unit/Group/<br>Process ID<br>No. | Unit Type   | Group/Inclusive<br>Units | SOP Index<br>No. | Regulation                                       | Requirement Driver      |
|----------------------------------|---|--------------------------|------------------|--|-------------------------|
| 5-3-D399                         | Storage Tanks/Vessels                             | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs              | No changing attributes. |
| 5-4-2EHOLL                       | Loading/<br>Unloading Operations                  | N/A                      | 115C-1           | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| 5-4-2EHOLM                       | Loading/<br>Unloading Operations                  | N/A                      | 115C-1           | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| 5-4-31                           | Emission Points/Stationary<br>Vents/Process Vents | N/A                      | 115B-1           | 30 TAC Chapter 115, Vent Gas Controls            | No changing attributes. |
| 5-4-D409A                        | Storage Tanks/Vessels                             | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs              | No changing attributes. |
| 5-4-D422                         | Storage Tanks/Vessels                             | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs              | No changing attributes. |
| 5-4-D425                         | Storage Tanks/Vessels                             | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs              | No changing attributes. |
| 5-4-D426A                        | Storage Tanks/Vessels                             | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs              | No changing attributes. |
| 5-4-D426B                        | Storage Tanks/Vessels                             | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs              | No changing attributes. |
| 5-4-D426C                        | Storage Tanks/Vessels                             | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs              | No changing attributes. |
| 5-4-D491                         | Storage Tanks/Vessels                             | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs              | No changing attributes. |
| 5-4-D499                         | Storage Tanks/Vessels                             | N/A                      | 115B-1           | 30 TAC Chapter 115, Storage of VOCs              | No changing attributes. |
| 5-4-IBALU                        | Loading/<br>Unloading Operations                  | N/A                      | 115C-1           | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| 5-4-LIBOL                        | Loading/<br>Unloading Operations                  | N/A                      | 115C-1           | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| 5-4-LOAD                         | Loading/<br>Unloading Operations                  | N/A                      | 115C-1           | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| 5-4-NBOLL                        | Loading/<br>Unloading Operations                  | N/A                      | 115C-1           | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |
| 5-4-NBOLM                        | Loading/<br>Unloading Operations                  | N/A                      | 115C-1           | 30 TAC Chapter 115, Loading and Unloading of VOC | No changing attributes. |



### Unit Summary

| Unit/Group/<br>Process ID<br>No. | Unit Type               | Group/Inclusive<br>Units  | SOP Index<br>No. | Regulation   | Requirement Driver      |
|----------------------------------|-------------------------|---|------------------|--|-------------------------|
| 5-4-P511                         | Wastewater Units        | N/A   | 115B-1           | 30 TAC Chapter 115, Industrial Wastewater          | No changing attributes. |
| 5-5-D509A                        | Storage Tanks/Vessels   | N/A   | 115B-1           | 30 TAC Chapter 115, Storage of VOCs                | No changing attributes. |
| 5-5-D525                         | Storage Tanks/Vessels   | N/A   | 115B-1           | 30 TAC Chapter 115, Storage of VOCs                | No changing attributes. |
| 5-5-D526                         | Storage Tanks/Vessels   | N/A   | 115B-1           | 30 TAC Chapter 115, Storage of VOCs                | No changing attributes. |
| GRP-NNNH1                        | Distillation Operations | 5-2-T110, 5-2-T120A   | 60NNN-1          | 40 CFR Part 60, Subpart NNN                        | No changing attributes. |
| GRP-NNNT05                       | Distillation Operations | 5-2-T220, 5-2-T230,<br>5-3-T310, 5-3-T320,<br>5-3-T330, 5-4-T410,<br>5-4-T420, 5-4-T423,<br>5-4-T430, 5-4-T450,<br>5-5-T510, 5-5-T520 | 60NNN-1          | 40 CFR Part 60, Subpart NNN                        | No changing attributes. |
| GRP-RRRH1                        | Reactor                 | 5-3-R305, 5-3-R306,<br>5-4-R405, 5-4-R406,<br>5-5-R505, 5-5-R506,<br>5-5-R507, 5-5-R820,<br>5-5-R825                                  | 60RRR-1          | 40 CFR Part 60, Subpart RRR                        | No changing attributes. |
| PROOXO                           | Fugitive Emission Units | N/A   | 115D-1           | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | No changing attributes. |
| PROOXO                           | Fugitive Emission Units | N/A   | 60VV-1           | 40 CFR Part 60, Subpart VV                         | No changing attributes. |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)                | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|--|---|
| 5-1-05                    | EP                      | 115B-1        | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(a)(2)(A)<br>[G]§ 115.122(a)(4)<br>§ 115.127(a)(2)       | A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous 24-hour period is exempt from §115.121(a)(1) of this title.   | [G]§ 115.125<br>§ 115.126(2)  | § 115.126<br>§ 115.126(2)<br>§ 115.126(4)                    | None                                      |
| 5-1-31                    | EP                      | 111A-1        | Opacity   | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(1)(C)<br>§ 111.111(a)(1)(E)                          | Visible emissions from any stationary vent shall not exceed an opacity of 15% averaged over a six minute period for any source with a total flow rate of at least 100,000 acfm unless a CEMS is installed.  | [G]§ 111.111(a)(1)(F)<br>** See Periodic Monitoring Summary   | None   | None                                      |
| 5-1-31                    | EP                      | 115B-1        | VOC       | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(2)<br>§ 115.121(a)(2)<br>§ 115.122(a)(2)(B)          | Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices). | [G]§ 115.125<br>§ 115.126(1)<br>§ 115.126(1)(C)<br>§ 115.126(2)<br>** See Periodic Monitoring Summary | § 115.126<br>§ 115.126(1)<br>§ 115.126(1)(C)<br>§ 115.126(2) | None                                      |
| 5-1-FL90                  | CD                      | 111A-1        | Opacity   | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(4)(A)  | Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.222(b).   | § 111.111(a)(4)(A)(i)<br>§ 111.111(a)(4)(A)(ii)   | § 111.111(a)(4)(A)(ii)                                       | None                                      |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant       | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements   | Recordkeeping Requirements<br>(30 TAC § 122.144)  | Reporting Requirements<br>(30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|--|---|---|---|---|
| 5-1-H1                    | EU                      | 117B-1        | NO <sub>x</sub> | 30 TAC Chapter 117, Subchapter B      | § 117.310(d)(3)<br>§ 117.310(a)<br>§ 117.310(a)(8)(A)(i)<br>§ 117.310(b)<br>[G]§ 117.310(e)(1)<br>§ 117.310(e)(2)<br>[G]§ 117.310(e)(3)<br>§ 117.310(e)(4)<br>§ 117.340(f)(1)<br>§ 117.340(l)(2)<br>§ 117.340(p)(1)<br>§ 117.340(p)(3) | An owner or operator may not use the alternative methods specified in §§ 117.315, 117.323 and 117.9800 to comply with the NO <sub>x</sub> emission specifications but shall use the mass emissions cap and trade program in Chapter 101, Subchapter H, Division 3, except that electric generating facilities must also comply with the daily and 30-day system cap emission limitations of § 117.320. An owner or operator may use the alternative methods specified in § 117.9800 to comply with § 117.320. | [G]§ 117.335(a)(1)<br>§ 117.335(a)(4)<br>§ 117.335(b)<br>§ 117.335(c)<br>§ 117.335(d)<br>§ 117.335(f)<br>§ 117.335(g)<br>§ 117.340(a)<br>§ 117.340(b)(1)<br>§ 117.340(b)(3)<br>§ 117.340(c)(1)<br>[G]§ 117.340(c)(3)<br>[G]§ 117.340(f)(2)<br>§ 117.340(l)(2)<br>§ 117.340(o)(1)<br>§ 117.340(p)(1)<br>§ 117.8100(a)<br>§ 117.8100(a)(1)<br>§ 117.8100(a)(1)(A)<br>§ 117.8100(a)(1)(B)<br>§ 117.8100(a)(1)(B)(i)<br>§ 117.8100(a)(1)(B)(ii)<br>§ 117.8100(a)(1)(C)<br>§ 117.8100(a)(2)<br>[G]§ 117.8100(a)(3)<br>§ 117.8100(a)(4)<br>§ 117.8100(a)(5)<br>§ 117.8100(a)(5)(A)<br>§ 117.8100(a)(5)(B)<br>[G]§ 117.8100(a)(5)(D)<br>[G]§ 117.8100(a)(5)(E)<br>§ 117.8100(a)(6) | § 117.345(a)<br>§ 117.345(f)<br>§ 117.345(f)(1)<br>[G]§ 117.345(f)(2)<br>§ 117.345(f)(8)<br>§ 117.345(f)(9)<br>§ 117.8100(a)(5)(C)                    | § 117.335(b)<br>§ 117.335(g)<br>[G]§ 117.345(b)<br>[G]§ 117.345(c)<br>§ 117.345(d)<br>§ 117.345(d)(3)<br>§ 117.8010<br>[G]§ 117.8010(1)<br>§ 117.8010(2)<br>§ 117.8010(2)(A)<br>§ 117.8010(2)(B)<br>§ 117.8010(2)(C)<br>§ 117.8010(2)(D)<br>[G]§ 117.8010(3)<br>§ 117.8010(4)<br>[G]§ 117.8010(5)<br>§ 117.8010(6)<br>[G]§ 117.8010(7)<br>[G]§ 117.8010(8)<br>§ 117.8100(c) |
| 5-1-H1                    | EU                      | 117B-1        | CO              | 30 TAC Chapter 117, Subchapter B      | § 117.310(c)(1)<br>§ 117.310(c)(1)(A)<br>§ 117.310(c)(3)<br>§ 117.340(f)(1)  | CO emissions must not exceed 400 ppmv at 3.0% O <sub>2</sub> , dry basis.   | [G]§ 117.335(a)(1)<br>§ 117.335(a)(4)<br>§ 117.335(b)<br>§ 117.335(c)<br>§ 117.335(d)<br>§ 117.335(f)<br>§ 117.335(f)(3)<br>§ 117.335(g)  | § 117.345(a)<br>§ 117.345(f)<br>§ 117.345(f)(1)<br>[G]§ 117.345(f)(2)<br>§ 117.345(f)(7)<br>§ 117.345(f)(8)<br>§ 117.345(f)(9)<br>§ 117.8100(a)(5)(C) | § 117.335(b)<br>§ 117.335(g)<br>[G]§ 117.345(b)<br>[G]§ 117.345(c)<br>§ 117.345(d)<br>§ 117.345(d)(2)<br>§ 117.345(d)(3)<br>§ 117.345(d)(4)   |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant       | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements<br>(30 TAC § 122.144)                    | Reporting Requirements<br>(30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|-----------------|---------------------------------------|---|--|--|---|---|
|                           |                         |               |                 |                                       |   |  | § 117.340(a)<br>§ 117.340(b)(1)<br>§ 117.340(b)(3)<br>§ 117.340(e)<br>[G]§ 117.340(f)(2)<br>§ 117.8100(a)<br>§ 117.8100(a)(1)<br>§ 117.8100(a)(1)(A)<br>§ 117.8100(a)(1)(B)<br>§ 117.8100(a)(1)(B)(iii)<br>§ 117.8100(a)(1)(B)(iii)<br>§ 117.8100(a)(1)(C)<br>§ 117.8100(a)(2)<br>[G]§ 117.8100(a)(3)<br>§ 117.8100(a)(4)<br>§ 117.8100(a)(5)<br>§ 117.8100(a)(5)(A)<br>§ 117.8100(a)(5)(B)<br>[G]§ 117.8100(a)(5)(D)<br>[G]§ 117.8100(a)(5)(E)<br>§ 117.8100(a)(6)<br>§ 117.8120<br>§ 117.8120(1)<br>§ 117.8120(1)(A) |   | § 117.345(d)(5)<br>§ 117.8010<br>[G]§ 117.8010(1)<br>§ 117.8010(2)<br>§ 117.8010(2)(A)<br>§ 117.8010(2)(B)<br>[G]§ 117.8010(3)<br>§ 117.8010(4)<br>[G]§ 117.8010(5)<br>§ 117.8010(6)<br>[G]§ 117.8010(7)<br>[G]§ 117.8010(8)<br>§ 117.8100(c)                                   |
| 5-1-H1                    | EU                      | 117B-1        | NH <sub>3</sub> | 30 TAC Chapter 117, Subchapter B      | § 117.310(c)(2)<br>§ 117.310(c)(2)(A)                             | For process heaters that inject urea or ammonia into the exhaust stream for NO <sub>x</sub> control, ammonia emissions must not exceed 10 ppmv at 3.0% O <sub>2</sub> , dry. | § 117.335(a)(2)<br>§ 117.335(a)(4)<br>§ 117.335(b)<br>§ 117.335(d)<br>§ 117.335(e)<br>§ 117.335(g)<br>§ 117.340(b)(1)<br>§ 117.340(b)(3)<br>§ 117.340(d)<br>§ 117.8000(b)<br>§ 117.8000(c)<br>§ 117.8000(c)(3)<br>§ 117.8000(c)(4)<br>§ 117.8000(c)(5)<br>§ 117.8000(c)(6)<br>[G]§ 117.8000(d)   | § 117.345(a)<br>§ 117.345(f)<br>§ 117.345(f)(11)<br>§ 117.345(f)(9) | § 117.335(b)<br>§ 117.335(g)<br>[G]§ 117.345(b)<br>[G]§ 117.345(c)<br>§ 117.8010<br>[G]§ 117.8010(1)<br>§ 117.8010(2)<br>§ 117.8010(2)(A)<br>§ 117.8010(2)(B)<br>[G]§ 117.8010(3)<br>§ 117.8010(4)<br>[G]§ 117.8010(5)<br>§ 117.8010(6)<br>[G]§ 117.8010(7)<br>[G]§ 117.8010(8) |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant      | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|----------------|---------------------------------------|---|---|---|--|--|
|                           |                         |               |                |                                       |   |   | § 117.8130<br>§ 117.8130(1)   |  |  |
| 5-1-H1                    | EU                      | 63DDDDD-1     | 112(B)<br>HAPS | 40 CFR Part 63, Subpart DDDDD         | § 63.7505<br>The permit holder shall comply with the applicable limitation, standard and/or equipment specification requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable requirements of 40 CFR Part 63, Subpart DDDDD  | The permit holder shall comply with the applicable monitoring and testing requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable recordkeeping requirements of 40 CFR Part 63, Subpart DDDDD | The permit holder shall comply with the applicable reporting requirements of 40 CFR Part 63, Subpart DDDDD |
| 5-2-02                    | EP                      | 115B-1        | VOC            | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(2)<br>§ 115.121(a)(2)<br>§ 115.122(a)(2)(A)<br>§ 60.18   | Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices). | [G]§ 115.125<br>§ 115.126(1)<br>§ 115.126(1)(B)<br>§ 115.126(2)<br>§ 115.126(7)   | § 115.126<br>§ 115.126(1)<br>§ 115.126(1)(B)<br>§ 115.126(2)   | None   |
| 5-2-03                    | EP                      | 115B-1        | VOC            | 30 TAC Chapter 115, Vent Gas Controls | § 115.122(a)(2)<br>§ 115.121(a)(2)<br>§ 115.122(a)(2)(A)<br>§ 60.18   | Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices). | [G]§ 115.125<br>§ 115.126(1)<br>§ 115.126(1)(B)<br>§ 115.126(2)<br>§ 115.126(7)   | § 115.126<br>§ 115.126(1)<br>§ 115.126(1)(B)<br>§ 115.126(2)   | None   |
| 5-2-04                    | EP                      | 115B-1        | VOC            | 30 TAC Chapter 115, Vent Gas Controls | § 115.127(a)(2)(A)<br>[G]§ 115.122(a)(4)<br>§ 115.127(a)(2)   | A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds   | [G]§ 115.125<br>§ 115.126(2)  | § 115.126<br>§ 115.126(2)<br>§ 115.126(4)  | None   |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant           | State Rule or Federal Regulation Name    | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements                                      | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|--|--|---|
|                           |                         |               |                     |  |   | in any continuous 24-hour period is exempt from §115.121(a)(1) of this title.  |  |  |   |
| 5-2-05                    | EP                      | 115B-1        | VOC                 | 30 TAC Chapter 115, Vent Gas Controls    | § 115.127(a)(2)(A)<br>[G]§ 115.122(a)(4)<br>§ 115.127(a)(2)   | A vent gas stream having a combined weight of volatile organic compounds (VOC) equal to or less than 100 pounds in any continuous 24-hour period is exempt from §115.121(a)(1) of this title.  | [G]§ 115.125<br>§ 115.126(2)   | § 115.126<br>§ 115.126(2)<br>§ 115.126(4)  | None                                      |
| 5-2-CT20                  | EU                      | 115H-1        | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Cooling Towers | § 115.767(6)<br>§ 115.764(a)(1)<br>§ 115.766(i)   | All sites that are subject to this division and that are located in the Houston/ Galveston/Brazoria area as defined in § 115.10, excluding Harris County, are exempt from § 115.761(b) and (c)(2), except as provided in § 115.769(a)(3).  | § 115.764(a)(1)<br>§ 115.764(a)(3)<br>[G]§ 115.764(a)(6)<br>§ 115.764(c) | § 115.766(a)(1)<br>§ 115.766(a)(2)<br>§ 115.766(a)(3)<br>§ 115.766(a)(5)<br>§ 115.766(a)(6)<br>§ 115.766(c)<br>§ 115.766(i)(1) | § 115.766(i)(2)                           |
| 5-2-D111                  | EU                      | 115B-1        | VOC                 | 30 TAC Chapter 115, Storage of VOCs      | § 115.112(e)(1)<br>§ 115.112(e)(3)<br>§ 115.112(e)(3)(A)<br>§ 115.112(e)(3)(A)(i)<br>§ 115.112(e)(3)(A)(ii) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.115(a)<br>§ 115.115(a)(1)<br>§ 115.116(a)(1)<br>[G]§ 115.117       | § 115.118(a)(4)<br>§ 115.118(a)(4)(A)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7)  | None                                      |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)                               | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|--|---|---|
| 5-2-D122                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.112(e)(1)<br>§ 115.112(e)(3)<br>§ 115.112(e)(3)(A)<br>§ 115.112(e)(3)(A)(i)<br>§ 115.112(e)(3)(A)(ii) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.115(a)<br>§ 115.115(a)(1)<br>§ 115.116(a)(1)<br>[G]§ 115.117   | § 115.118(a)(4)<br>§ 115.118(a)(4)(A)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7) | None                                      |
| 5-2-D122                  | EU                      | 60Kb-1        | VOC       | 40 CFR Part 60, Subpart Kb            | [G]§ 60.112b(a)(3)  | Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).   | [G]§ 60.113b(c)(1)<br>§ 60.113b(c)(2)<br>§ 60.116b(a)<br>§ 60.116b(b)<br>§ 60.116b(e)<br>§ 60.116b(e)(1)<br>[G]§ 60.116b(e)(3)<br>[G]§ 60.485(b)<br>** See Periodic Monitoring Summary | § 60.115b<br>[G]§ 60.115b(c)<br>§ 60.116b(a)<br>§ 60.116b(b)                | [G]§ 60.113b(c)(1)<br>§ 60.115b           |
| 5-2-D124                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.  | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7)                       | None                                      |
| 5-2-D155                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than   | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7)                       | None                                      |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements                                | Recordkeeping Requirements (30 TAC § 122.144)                               | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|--|---|---|
|                           |                         |               |           |                                       |   | 1.5 psia is exempt from the requirements of this division.   |  |   |   |
| 5-2-D202                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.112(e)(1)<br>§ 115.112(e)(3)<br>§ 115.112(e)(3)(A)<br>§ 115.112(e)(3)(A)(i)<br>§ 115.112(e)(3)(A)(ii) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.115(a)<br>§ 115.115(a)(1)<br>§ 115.116(a)(1)<br>[G]§ 115.117 | § 115.118(a)(4)<br>§ 115.118(a)(4)(A)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7) | None                                      |
| 5-2-D204                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.112(e)(1)<br>§ 115.112(e)(3)<br>§ 115.112(e)(3)(A)<br>§ 115.112(e)(3)(A)(i)<br>§ 115.112(e)(3)(A)(ii) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.115(a)<br>§ 115.115(a)(1)<br>§ 115.116(a)(1)<br>[G]§ 115.117 | § 115.118(a)(4)<br>§ 115.118(a)(4)(A)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7) | None                                      |



### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)                               | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|--|---|---|
| 5-2-D204                  | EU                      | 60Kb-1        | VOC       | 40 CFR Part 60, Subpart Kb            | [G]§ 60.112b(a)(3)  | Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).   | [G]§ 60.113b(c)(1)<br>§ 60.113b(c)(2)<br>§ 60.116b(a)<br>§ 60.116b(b)<br>§ 60.116b(e)<br>§ 60.116b(e)(1)<br>[G]§ 60.116b(e)(3)<br>[G]§ 60.485(b)<br>** See Periodic Monitoring Summary | § 60.115b<br>[G]§ 60.115b(c)<br>§ 60.116b(a)<br>§ 60.116b(b)                | [G]§ 60.113b(c)(1)<br>§ 60.115b           |
| 5-2-D208                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.112(e)(1)<br>§ 115.112(e)(3)<br>§ 115.112(e)(3)(A)<br>§ 115.112(e)(3)(A)(i)<br>§ 115.112(e)(3)(A)(ii) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.115(a)<br>§ 115.115(a)(1)<br>§ 115.116(a)(1)<br>[G]§ 115.117   | § 115.118(a)(4)<br>§ 115.118(a)(4)(A)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7) | None                                      |
| 5-2-D208                  | EU                      | 60Kb-1        | VOC       | 40 CFR Part 60, Subpart Kb            | [G]§ 60.112b(a)(3)  | Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).   | [G]§ 60.113b(c)(1)<br>§ 60.113b(c)(2)<br>§ 60.116b(a)<br>§ 60.116b(b)<br>§ 60.116b(e)<br>§ 60.116b(e)(1)<br>[G]§ 60.116b(e)(3)<br>[G]§ 60.485(b)<br>** See Periodic Monitoring Summary | § 60.115b<br>[G]§ 60.115b(c)<br>§ 60.116b(a)<br>§ 60.116b(b)                | [G]§ 60.113b(c)(1)<br>§ 60.115b           |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant           | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)                                | Reporting Requirements (30 TAC § 122.145)                |
|---------------------------|-------------------------|---------------|---------------------|---------------------------------------|---|--|--|--|--|
| 5-2-D209                  | EU                      | 115B-1        | VOC                 | 30 TAC Chapter 115, Storage of VOCs   | § 115.112(e)(1)<br>§ 115.112(e)(3)<br>§ 115.112(e)(3)(A)<br>§ 115.112(e)(3)(A)(i)<br>§ 115.112(e)(3)(A)(ii) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate. | § 115.115(a)<br>§ 115.115(a)(1)<br>§ 115.116(a)(1)<br>[G]§ 115.117   | § 115.118(a)(4)<br>§ 115.118(a)(4)(A)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7)  | None   |
| 5-2-D209                  | EU                      | 60Kb-1        | VOC                 | 40 CFR Part 60, Subpart Kb            | [G]§ 60.112b(a)(3)  | Storage vessels specified in §60.112b(a) and equipped with a closed vent system/control device are to meet the specifications of §60.112b(a)(3)(i)-(ii).   | [G]§ 60.113b(c)(1)<br>§ 60.113b(c)(2)<br>§ 60.116b(a)<br>§ 60.116b(b)<br>§ 60.116b(e)<br>§ 60.116b(e)(1)<br>[G]§ 60.116b(e)(3)<br>[G]§ 60.485(b)<br>** See Periodic Monitoring Summary | § 60.115b<br>[G]§ 60.115b(c)<br>§ 60.116b(a)<br>§ 60.116b(b)                 | [G]§ 60.113b(c)(1)<br>§ 60.115b                          |
| 5-2-FL200                 | CD                      | 111A-1        | Opacity             | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(4)(A)  | Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.222(b).  | § 111.111(a)(4)(A)(i)<br>§ 111.111(a)(4)(A)(ii)  | § 111.111(a)(4)(A)(ii)   | None   |
| 5-2-FL200                 | EP                      | 115H-1        | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Vent Gas    | § 115.722(d)<br>§ 115.722(d)(1)<br>§ 115.722(d)(2)<br>[G]§ 115.725(d)(1)                                    | All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as  | [G]§ 115.725(d)(1)<br>§ 115.725(d)(2)<br>§ 115.725(d)(2)(A)(i)<br>[G]§ 115.725(d)(2)(A)(ii)  | § 115.726(a)(1)<br>§ 115.726(a)(1)(A)<br>§ 115.726(d)(1)<br>§ 115.726(d)(10) | § 115.725(n)<br>§ 115.726(a)(1)(B)<br>[G]§ 115.726(a)(2) |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant           | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)   | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|---------------------|---------------------------------------|---|---|--|---|---|
|                           |                         |               |                     |                                       | § 115.725(d)(2)<br>§ 115.725(d)(2)(A)(i)<br>[G]§ 115.725(d)(2)(A)(ii)<br>§ 115.725(d)(2)(A)(iii)<br>§ 115.725(d)(2)(A)(iv)<br>§ 115.725(d)(2)(B)<br>§ 115.725(d)(2)(B)(i)<br>§ 115.725(d)(2)(B)(ii)<br>§ 115.725(d)(2)(B)(iii)<br>§ 115.725(d)(2)(B)(iv)<br>[G]§ 115.725(l)<br>[G]§ 115.726(a)(2) | amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare.   | § 115.725(d)(2)(A)(iii)<br>§ 115.725(d)(2)(A)(iv)<br>§ 115.725(d)(2)(B)<br>§ 115.725(d)(2)(B)(i)<br>§ 115.725(d)(2)(B)(ii)<br>§ 115.725(d)(2)(B)(iii)<br>§ 115.725(d)(2)(B)(iv)<br>§ 115.725(d)(3)<br>§ 115.725(d)(4)<br>§ 115.725(d)(5)<br>§ 115.725(d)(6)<br>§ 115.725(d)(7)<br>§ 115.725(k)(1)<br>[G]§ 115.725(l)<br>§ 115.725(n) | § 115.726(d)(2)<br>§ 115.726(d)(3)<br>§ 115.726(d)(4)<br>§ 115.726(i)<br>§ 115.726(j)(1)<br>§ 115.726(j)(2)   |   |
| 5-2-FL200                 | CD                      | 60A-1         | Opacity             | 40 CFR Part 60, Subpart A             | § 60.18(b)<br>§ 60.18(c)(1)<br>§ 60.18(c)(2)<br>§ 60.18(c)(3)(ii)<br>§ 60.18(c)(4)(i)<br>§ 60.18(c)(6)<br>§ 60.18(e)  | Flares shall comply with paragraphs (c)-(f) of § 60.18.   | § 60.18(d)<br>§ 60.18(f)(1)<br>§ 60.18(f)(2)<br>§ 60.18(f)(3)<br>§ 60.18(f)(4)   | None  | None                                      |
| 5-2-FL200A                | CD                      | 111A-1        | Opacity             | 30 TAC Chapter 111, Visible Emissions | § 111.111(a)(4)(A)  | Visible emissions from a process gas flare shall not be permitted for more than five minutes in any two-hour period, except for upset emissions as provided in §101.222(b).                           | § 111.111(a)(4)(A)(i)<br>§ 111.111(a)(4)(A)(ii)  | § 111.111(a)(4)(A)(ii)  | None                                      |
| 5-2-FL200A                | EP                      | 115H-1        | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Vent Gas    | § 115.722(d)<br>§ 115.722(d)(1)<br>§ 115.722(d)(2)<br>[G]§ 115.725(d)(1)<br>§ 115.725(d)(2)<br>§ 115.725(d)(2)(A)(i)<br>[G]§ 115.725(d)(2)(A)(ii)<br>§ 115.725(d)(2)(A)(iii)<br>§ 115.725(d)(2)(A)(iv)<br>§ 115.725(d)(2)(B)  | All flares must continuously meet the requirements of 40 CFR § 60.18(c)(2)-(6) and (d) as amended through October 17, 2000 (65 FR 61744) when vent gas containing HRVOC is being routed to the flare. | [G]§ 115.725(d)(1)<br>§ 115.725(d)(2)<br>§ 115.725(d)(2)(A)(i)<br>[G]§ 115.725(d)(2)(A)(ii)<br>§ 115.725(d)(2)(A)(iii)<br>§ 115.725(d)(2)(A)(iv)<br>§ 115.725(d)(2)(B)<br>§ 115.725(d)(2)(B)(i)<br>§ 115.725(d)(2)(B)(ii)<br>§ 115.725(d)(2)(B)(iii)   | § 115.726(a)(1)<br>§ 115.726(a)(1)(A)<br>§ 115.726(d)(1)<br>§ 115.726(d)(2)<br>§ 115.726(d)(3)<br>§ 115.726(d)(4)<br>§ 115.726(i)<br>§ 115.726(j)(1)<br>§ 115.726(j)(2) | § 115.725(n)<br>§ 115.726(a)(1)(B)        |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant           | State Rule or Federal Regulation Name        | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)   | Reporting Requirements (30 TAC § 122.145)                      |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|--|---|--|
|                           |                         |               |                     |  | § 115.725(d)(2)(B)(i)<br>§ 115.725(d)(2)(B)(ii)<br>§ 115.725(d)(2)(B)(iii)<br>§ 115.725(d)(2)(B)(iv)<br>[G]§ 115.725(l)   |  | § 115.725(d)(2)(B)(iv)<br>§ 115.725(d)(3)<br>§ 115.725(d)(4)<br>§ 115.725(d)(5)<br>§ 115.725(d)(6)<br>§ 115.725(d)(7)<br>[G]§ 115.725(l)<br>§ 115.725(n) |   |  |
| 5-2-FL200A                | CD                      | 60A-1         | Opacity             | 40 CFR Part 60, Subpart A                    | § 60.18(b)<br>§ 60.18(c)(1)<br>§ 60.18(c)(2)<br>§ 60.18(c)(3)(ii)<br>§ 60.18(c)(4)(i)<br>§ 60.18(c)(6)<br>§ 60.18(e)  | Flares shall comply with paragraphs (c)-(f) of § 60.18.  | § 60.18(d)<br>§ 60.18(f)(1)<br>§ 60.18(f)(2)<br>§ 60.18(f)(3)<br>§ 60.18(f)(4)   | None  | None   |
| 5-2-FUGITIV               | EU                      | 115H-1        | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.787(d)<br>§ 115.780(b)<br>[G]§ 115.781(a)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(1)<br>§ 115.782(c)(1)(A)<br>§ 115.782(c)(1)(B)<br>[G]§ 115.782(c)(1)(B)(i)<br>§ 115.782(c)(1)(B)(ii)<br>[G]§ 115.782(c)(1)(B)(iii)<br>§ 115.782(c)(1)(B)(iv)<br>§ 115.782(c)(1)(C)(i)<br>§ 115.782(c)(1)(C)(i)(I)<br>§ 115.782(c)(1)(C)(i)(II)<br>§ 115.782(c)(1)(C)(i)(III)<br>§ 115.782(c)(1)(C)(ii)<br>§ 115.783(3)<br>[G]§ 115.783(3)(A)<br>[G]§ 115.783(3)(B)<br>§ 115.787(b)<br>§ 115.787(b)(1)<br>§ 115.787(g) | All pumps that are equipped with a shaft sealing system that prevents or detects emissions of VOC from the seal are exempt from the monitoring requirement of §115.781(b) and (c). Submerged pumps or sealless pumps may be used to satisfy the requirements of this subsection. | § 115.782(d)(2)  | [G]§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(1)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(A)<br>§ 115.786(d)(2)(B)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(g) | [G]§ 115.782(c)(1)(B)(i)<br>§ 115.783(3)(C)<br>[G]§ 115.786(c) |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant           | State Rule or Federal Regulation Name        | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements   | Recordkeeping Requirements<br>(30 TAC § 122.144)   | Reporting Requirements<br>(30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|---------------------|--|---|--|---|--|---|
| 5-2-FUGITIV               | EU                      | 115H-1        | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9)<br>§ 115.780(b)<br>[G]§ 115.781(a)<br>[G]§ 115.781(d)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(2)<br>§ 115.782(c)(2)(A)<br>§ 115.782(c)(2)(A)(i)<br>§ 115.782(c)(2)(A)(ii)<br>§ 115.782(c)(2)(B)<br>§ 115.783(1)<br>§ 115.783(1)(A)<br>§ 115.783(1)(B)<br>§ 115.783(5)<br>§ 115.787(f)<br>§ 115.787(f)(4)<br>§ 115.787(g)<br>§ 115.788(a)<br>§ 115.788(a)(1)<br>§ 115.788(a)(2)<br>§ 115.788(a)(2)(A)<br>§ 115.788(a)(2)(B)<br>§ 115.788(a)(2)(C)<br>§ 115.788(a)(2)(C)(i)<br>§ 115.788(a)(2)(C)(ii)<br>§ 115.788(a)(2)(C)(iii)<br>§ 115.788(a)(2)(D)<br>§ 115.788(a)(3)<br>§ 115.788(a)(3)(A)<br>§ 115.788(a)(3)(B)<br>[G]§ 115.788(g) | Bypass line valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.781(b)<br>§ 115.781(b)(10)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>[G]§ 115.781(d)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>§ 115.782(c)(2)(A)(ii)<br>[G]§ 115.781(d)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.782(d)(2)<br>§ 115.786(a)(1) | § 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>§ 115.782(c)(2)(A)(ii)<br>§ 115.786(a)(1)<br>§ 115.786(a)(2)<br>§ 115.786(a)(2)(A)<br>§ 115.786(a)(2)(B)<br>§ 115.786(b)(1)<br>§ 115.786(b)(2)<br>§ 115.786(b)(2)(A)<br>§ 115.786(b)(2)(B)<br>§ 115.786(b)(2)(C)<br>[G]§ 115.786(b)(3)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(g)<br>[G]§ 115.788(g) | § 115.782(c)(2)(A)(ii)<br>[G]§ 115.786(c)<br>§ 115.788(c)<br>[G]§ 115.788(d)<br>§ 115.788(e)<br>[G]§ 115.788(g) |
| 5-2-FUGITIV               | EU                      | 115H-1        | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9)<br>§ 115.780(b)<br>[G]§ 115.781(a)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)  | Heat exchanger heads, sight glasses, meters, gauges, sampling connections, bolted manways, hatches, sump covers, junction box vents,   | § 115.781(b)<br>§ 115.781(b)(10)<br>§ 115.781(b)(3)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)   | § 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>[G]§ 115.782(c)(1)(B)(i)  | [G]§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.789(1)(B)  |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant           | State Rule or Federal Regulation Name        | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145)   |
|---------------------------|-------------------------|---------------|---------------------|--|---|---|--|--|---|
|                           |                         |               |                     |  | § 115.782(b)(2)<br>§ 115.782(c)(1)<br>§ 115.782(c)(1)(A)<br>§ 115.782(c)(1)(B)<br>[G]§ 115.782(c)(1)(B)(i)<br>§ 115.782(c)(1)(B)(iii)<br>[G]§ 115.782(c)(1)(B)(iii)<br>§ 115.782(c)(1)(B)(iv) | and covers and seals on VOC water separators within the process unit or processes listed in §115.780(a) in which a HRVOC is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.781(b)(7)(B)<br>§ 115.781(f)<br>§ 115.781(f)(1)<br>§ 115.781(f)(2)<br>§ 115.781(f)(3)<br>§ 115.781(f)(4)<br>§ 115.781(f)(5)<br>§ 115.781(f)(6)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.782(d)(2)<br>§ 115.789(1)(B) | [G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(1)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(A)<br>§ 115.786(d)(2)(B)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(g)    |   |
| 5-2-FUGITIV               | EU                      | 115H-1        | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.787(a)  | Components that contact a process fluid containing less than 5.0% highly-reactive volatile organic compounds by weight on an annual average basis are exempt from the requirements of this division (relating to Fugitive Emissions), except for 115.786(e) and (g) of this title (relating to Record keeping Requirements).  | None   | § 115.786(e)<br>§ 115.786(g)   | None  |
| 5-2-FUGITIV               | EU                      | 115H-1        | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9)<br>§ 115.780(b)<br>[G]§ 115.781(a)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(1)<br>§ 115.782(c)(1)(A)<br>§ 115.782(c)(1)(B)    | Pressure relief valves (in gaseous service) within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive  | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(4)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>§ 115.781(b)<br>§ 115.781(b)(10)<br>§ 115.781(b)(4)   | § 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(5)<br>§ 115.781(b)(10)<br>§ 115.781(g) | [G]§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.788(c)<br>[G]§ 115.788(d)<br>§ 115.788(e)<br>[G]§ 115.788(g) |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant           | State Rule or Federal Regulation Name        | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)   | Reporting Requirements (30 TAC § 122.145)   |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|---|---|---|
|                           |                         |               |                     |  | [G]§ 115.782(c)(1)(B)(i)<br>§ 115.782(c)(1)(B)(ii)<br>[G]§ 115.782(c)(1)(B)(iii)<br>§ 115.782(c)(1)(B)(iv)<br>§ 115.787(e)<br>§ 115.787(f)<br>§ 115.787(g)<br>§ 115.788(a)<br>§ 115.788(a)(1)<br>§ 115.788(a)(2)<br>§ 115.788(a)(2)(A)<br>§ 115.788(a)(2)(B)<br>§ 115.788(a)(2)(C)<br>§ 115.788(a)(2)(C)(i)<br>§ 115.788(a)(2)(C)(ii)<br>§ 115.788(a)(2)(C)(iii)<br>§ 115.788(a)(2)(D)<br>§ 115.788(a)(3)<br>§ 115.788(a)(3)(A)<br>§ 115.788(a)(3)(B)<br>[G]§ 115.788(g) | volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components.  | § 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>§ 115.781(b)(8)<br>§ 115.781(e)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.782(d)(2)   | § 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>[G]§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(1)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(A)<br>§ 115.786(d)(2)(B)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(g)<br>[G]§ 115.788(g)   |   |
| 5-2-FUGITIV               | EU                      | 115H-1        | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9)<br>§ 115.780(b)<br>[G]§ 115.781(a)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(2)<br>§ 115.782(c)(2)(A)<br>§ 115.782(c)(2)(A)(i)<br>§ 115.782(c)(2)(A)(ii)<br>§ 115.782(c)(2)(B)<br>§ 115.783(5)<br>§ 115.787(f)<br>§ 115.787(f)(4)<br>§ 115.787(g)<br>§ 115.788(a)<br>§ 115.788(a)(1)<br>§ 115.788(a)(2)   | Valves within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>§ 115.781(b)<br>§ 115.781(b)(10)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.782(d)(2) | § 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(5)<br>§ 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>§ 115.782(c)(2)(A)(ii)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e) | § 115.782(c)(2)(A)(ii)<br>[G]§ 115.786(c)<br>§ 115.788(c)<br>[G]§ 115.788(d)<br>§ 115.788(e)<br>[G]§ 115.788(g) |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant           | State Rule or Federal Regulation Name        | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145)                      |
|---------------------------|-------------------------|---------------|---------------------|--|--|---|---|--|--|
|                           |                         |               |                     |  | § 115.788(a)(2)(A)<br>§ 115.788(a)(2)(B)<br>§ 115.788(a)(2)(C)<br>§ 115.788(a)(2)(C)(i)<br>§ 115.788(a)(2)(C)(ii)<br>§ 115.788(a)(2)(C)(iii)<br>§ 115.788(a)(2)(D)<br>§ 115.788(a)(3)<br>§ 115.788(a)(3)(A)<br>§ 115.788(a)(3)(B)<br>[G]§ 115.788(g)   | for all components.   |   | § 115.786(g)<br>[G]§ 115.788(g)  |  |
| 5-2-FUGITIV               | EU                      | 115H-1        | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9)<br>§ 115.780(b)<br>[G]§ 115.781(a)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(1)<br>§ 115.782(c)(1)(A)<br>§ 115.782(c)(1)(B)<br>[G]§ 115.782(c)(1)(B)(i)<br>§ 115.782(c)(1)(B)(ii)<br>[G]§ 115.782(c)(1)(B)(iii)<br>§ 115.782(c)(1)(B)(iv) | Flanges or other connectors within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(11)<br>§ 115.354(3)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>§ 115.781(b)<br>§ 115.781(b)(10)<br>§ 115.781(b)(3)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>§ 115.781(f)<br>§ 115.781(f)(1)<br>§ 115.781(f)(2)<br>§ 115.781(f)(3)<br>§ 115.781(f)(4)<br>§ 115.781(f)(5)<br>§ 115.781(f)(6)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.782(d)(2)<br>§ 115.789(1)(B) | § 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(5)<br>§ 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>[G]§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(1)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(A)<br>§ 115.786(d)(2)(B)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(g) | [G]§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.789(1)(B) |



### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant           | State Rule or Federal Regulation Name        | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145)                      |
|---------------------------|-------------------------|---------------|---------------------|--|--|--|--|--|--|
| 5-2-FUGITIV               | EU                      | 115H-1        | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9)<br>§ 115.780(b)<br>[G]§ 115.781(a)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(1)<br>§ 115.782(c)(1)(A)<br>§ 115.782(c)(1)(B)<br>[G]§ 115.782(c)(1)(B)(i)<br>§ 115.782(c)(1)(B)(ii)<br>[G]§ 115.782(c)(1)(B)(iii)<br>§ 115.782(c)(1)(B)(iv)<br>§ 115.782(c)(1)(C)(i)<br>§ 115.782(c)(1)(C)(i)(I)<br>§ 115.782(c)(1)(C)(i)(II)<br>§ 115.782(c)(1)(C)(i)(III)<br>§ 115.782(c)(1)(C)(ii)<br>§ 115.783(3)<br>[G]§ 115.783(3)(A)<br>[G]§ 115.783(3)(B)<br>§ 115.787(b) | Compressor seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening concentration greater than 500 ppmv above background as methane for all components. | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>§ 115.781(b)<br>§ 115.781(b)(10)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>§ 115.781(c)(1)<br>§ 115.781(c)(2)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.782(d)(2) | § 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(5)<br>§ 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>[G]§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(1)<br>§ 115.786(d)(2)<br>§ 115.786(d)(2)(A)<br>§ 115.786(d)(2)(B)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(g) | [G]§ 115.782(c)(1)(B)(i)<br>§ 115.783(3)(C)<br>[G]§ 115.786(c) |
| 5-2-FUGITIV               | EU                      | 115H-1        | Highly Reactive VOC | 30 TAC Chapter 115, HRVOC Fugitive Emissions | § 115.781(b)(9)<br>§ 115.780(b)<br>[G]§ 115.781(a)<br>§ 115.781(g)(3)<br>§ 115.782(a)<br>§ 115.782(b)(1)<br>§ 115.782(b)(2)<br>§ 115.782(c)(1)<br>§ 115.782(c)(1)(A)<br>§ 115.782(c)(1)(B)<br>[G]§ 115.782(c)(1)(B)(i)<br>§ 115.782(c)(1)(B)(ii)<br>[G]§ 115.782(c)(1)(B)(iii)<br>§ 115.782(c)(1)(B)(iv)<br>§ 115.782(c)(1)(C)(i)<br>§ 115.782(c)(1)(C)(i)(I)<br>§ 115.782(c)(1)(C)(i)(II)<br>§ 115.782(c)(1)(C)(i)(III)<br>§ 115.782(c)(1)(C)(ii)<br>§ 115.783(3)<br>[G]§ 115.783(3)(A)<br>[G]§ 115.783(3)(B)<br>§ 115.787(b) | Pump seals within a petroleum refinery; synthetic organic chemical, polymer, resin, or methyl-tert-butyl ether manufacturing process; or natural gas/gasoline processing operation in which a highly-reactive volatile organic compound is a raw material, intermediate, final product, or in a waste stream is subject to the requirements of this division. A leak is defined as a screening   | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>§ 115.781(b)<br>§ 115.781(b)(10)<br>§ 115.781(b)(4)<br>§ 115.781(b)(7)<br>§ 115.781(b)(7)(A)<br>§ 115.781(b)(7)(B)<br>§ 115.781(c)(1)<br>§ 115.781(c)(2)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)                    | § 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>§ 115.356(5)<br>§ 115.781(b)(10)<br>§ 115.781(g)<br>§ 115.781(g)(1)<br>§ 115.781(g)(2)<br>§ 115.781(g)(3)<br>[G]§ 115.782(c)(1)(B)(i)<br>[G]§ 115.786(c)<br>§ 115.786(d)<br>§ 115.786(d)(1)  | [G]§ 115.782(c)(1)(B)(i)<br>§ 115.783(3)(C)<br>[G]§ 115.786(c) |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name              | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)   | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|---|---|---|
|                           |                         |               |           |  | § 115.782(c)(1)(C)(i)(III)<br>§ 115.782(c)(1)(C)(ii)<br>§ 115.783(3)<br>[G]§ 115.783(3)(A)<br>[G]§ 115.783(3)(B)<br>§ 115.787(b)<br>§ 115.787(b)(1) | concentration greater than 500 ppmv above background as methane for all components.  | § 115.782(d)(2)   | § 115.786(d)(2)<br>§ 115.786(d)(2)(A)<br>§ 115.786(d)(2)(B)<br>§ 115.786(d)(2)(C)<br>§ 115.786(e)<br>§ 115.786(g) |   |
| 5-2-FUGITIV               | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(10)   | Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.                                    | None  | § 115.356<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)   | None                                      |
| 5-2-FUGITIV               | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(11)   | Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title. | None  | § 115.356<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)   | None                                      |
| 5-2-FUGITIV               | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(2)<br>§ 115.352(9)  | Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).   | None  | § 115.356<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)   | None                                      |
| 5-2-FUGITIV               | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)   | No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a  | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(4)<br>§ 115.354(5) | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)                                  | [G]§ 115.354(7)                           |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name              | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|--|---|
|                           |                         |               |           |  | § 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.352(9)<br>§ 115.357(12)<br>§ 115.357(8)<br>§ 115.357(9)  | screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.   | § 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(9)<br>[G]§ 115.355  | § 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5)   |   |
| 5-2-FUGITIV               | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(4)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.357(12)<br>§ 115.357(8)<br>§ 115.357(9) | No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.                     | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(9)<br>[G]§ 115.355               | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5) | [G]§ 115.354(7)                           |
| 5-2-FUGITIV               | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.352(8)<br>§ 115.357(12)<br>§ 115.357(8)  | No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(11)<br>§ 115.354(3)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1) | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5) | None                                      |
| 5-2-FUGITIV               | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)  | No compressor seals shall be allowed to have a VOC leak, for more than 15 days after discovery which   | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)  | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)  | None                                      |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name              | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
|                           |                         |               |           |  | § 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(12)<br>§ 115.357(8)   | exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.  | § 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355  | [G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5)  |   |
| 5-2-FUGITIV               | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(4)<br>§ 115.357(8)  | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | [G]§ 115.355  | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5)  | None                                      |
| 5-2-FUGITIV               | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(12)<br>§ 115.357(8) | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355 | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5) | None                                      |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)   | Reporting Requirements (30 TAC § 122.145)                      |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|---|---|--|
| 5-2-FUGITIV               | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-2(b)(1)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>§ 60.482-2(a)(2)<br>[G]§ 60.482-2(b)(2)<br>§ 60.482-2(c)(1)<br>[G]§ 60.482-2(c)(2)<br>§ 60.482-2(d)<br>[G]§ 60.482-2(d)(1)<br>§ 60.482-2(d)(2)<br>§ 60.482-2(d)(3)<br>[G]§ 60.482-2(d)(4)<br>[G]§ 60.482-2(d)(5)<br>[G]§ 60.482-2(d)(6)<br>[G]§ 60.482-2(e)<br>§ 60.482-2(f)<br>[G]§ 60.482-2(g)<br>§ 60.482-2(h)<br>§ 60.482-9(a)<br>§ 60.482-9(b)<br>[G]§ 60.482-9(d)<br>§ 60.482-9(f)<br>§ 60.486(k) | If an instrument reading of 10,000 ppm or greater is measured for pumps in light liquid service, a leak is detected.   | § 60.482-1(f)(1)<br>§ 60.482-1(f)(2)<br>[G]§ 60.482-1(f)(3)<br>§ 60.482-2(a)(1)<br>[G]§ 60.482-2(b)(2)<br>[G]§ 60.482-2(d)(4)<br>§ 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(c)<br>[G]§ 60.485(d)<br>[G]§ 60.485(e)<br>§ 60.485(f) | § 60.482-1(g)<br>[G]§ 60.486(a)<br>[G]§ 60.486(b)<br>[G]§ 60.486(c)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>[G]§ 60.486(e)(2)<br>[G]§ 60.486(e)(4)<br>[G]§ 60.486(f)<br>[G]§ 60.486(h)<br>§ 60.486(j) | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |
| 5-2-FUGITIV               | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-3(a)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>[G]§ 60.482-3(b)<br>§ 60.482-3(c)<br>§ 60.482-3(d)<br>§ 60.482-3(e)(1)<br>§ 60.482-3(e)(2)<br>§ 60.482-3(f)<br>§ 60.482-3(g)(1)<br>§ 60.482-3(g)(2)<br>§ 60.482-3(h)<br>[G]§ 60.482-3(i)<br>§ 60.482-3(j)<br>§ 60.482-9(a)   | Each compressor shall be equipped with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere, except as provided in §60.482-1(c) and paragraphs (h), (i), and (j) of this section. | § 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(c)<br>[G]§ 60.485(d)<br>§ 60.485(f)  | § 60.482-1(g)<br>[G]§ 60.486(a)<br>[G]§ 60.486(b)<br>[G]§ 60.486(c)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>[G]§ 60.486(e)(2)<br>[G]§ 60.486(e)(4)<br>[G]§ 60.486(h)<br>§ 60.486(j)                   | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)   | Reporting Requirements (30 TAC § 122.145)                      |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|---|---|--|
|                           |                         |               |           |                                       | § 60.482-9(b)<br>§ 60.486(k)  |   |   |   |  |
| 5-2-FUGITIV               | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-4(a)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>§ 60.482-4(b)(1)<br>§ 60.482-4(c)<br>§ 60.482-4(d)(1)<br>§ 60.482-4(d)(2)<br>§ 60.482-9(a)<br>§ 60.482-9(b)<br>§ 60.486(k)  | Except during pressure releases, each pressure relief device in gas/vapor service shall be operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background, as determined by the methods specified in § 60.485(c). | § 60.482-4(b)(2)<br>§ 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(c)<br>[G]§ 60.485(d)<br>§ 60.485(f)  | § 60.482-1(g)<br>[G]§ 60.486(a)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>§ 60.486(e)(3)<br>[G]§ 60.486(e)(4)<br>§ 60.486(j)  | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |
| 5-2-FUGITIV               | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-5(a)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>[G]§ 60.482-5(b)<br>§ 60.482-5(c)<br>§ 60.486(k)  | Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system, except as provided in §60.482-1(c) and paragraph (c) of this section.  | § 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(d)<br>§ 60.485(f)  | § 60.482-1(g)<br>[G]§ 60.486(a)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>§ 60.486(j)   | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |
| 5-2-FUGITIV               | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-7(b)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>§ 60.482-7(d)(1)<br>§ 60.482-7(d)(2)<br>[G]§ 60.482-7(e)<br>[G]§ 60.482-7(f)<br>[G]§ 60.482-7(g)<br>[G]§ 60.482-7(h)<br>§ 60.482-9(a)<br>§ 60.482-9(b)<br>[G]§ 60.482-9(c)<br>§ 60.482-9(e)<br>§ 60.482-9(f)<br>§ 60.486(k) | If an instrument reading of 10,000 ppm or greater is measured for valves in gas/vapor service and in light liquid service, a leak is detected.  | § 60.482-1(f)(1)<br>§ 60.482-1(f)(2)<br>[G]§ 60.482-1(f)(3)<br>§ 60.482-7(a)(1)<br>[G]§ 60.482-7(a)(2)<br>§ 60.482-7(c)(1)(i)<br>§ 60.482-7(c)(1)(ii)<br>§ 60.482-7(c)(2)<br>§ 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(c)<br>[G]§ 60.485(d)<br>[G]§ 60.485(e)<br>§ 60.485(f) | § 60.482-1(g)<br>[G]§ 60.486(a)<br>[G]§ 60.486(b)<br>[G]§ 60.486(c)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>[G]§ 60.486(e)(2)<br>[G]§ 60.486(e)(4)<br>[G]§ 60.486(f)<br>§ 60.486(j) | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements<br>(30 TAC § 122.144)   | Reporting Requirements<br>(30 TAC § 122.145)                   |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|--|--|--|
| 5-2-FUGITIV               | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-8(b)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>§ 60.482-8(a)<br>§ 60.482-8(a)(2)<br>§ 60.482-8(c)(1)<br>§ 60.482-8(c)(2)<br>§ 60.482-8(d)<br>§ 60.482-9(a)<br>§ 60.482-9(b)<br>§ 60.486(k) | For pressure relief devices in light liquid or in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.                     | § 60.482-8(a)(1)<br>§ 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(d)<br>[G]§ 60.485(e)<br>§ 60.485(f) | § 60.482-1(g)<br>[G]§ 60.486(a)<br>[G]§ 60.486(b)<br>[G]§ 60.486(c)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>§ 60.486(j)    | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |
| 5-2-FUGITIV               | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-8(b)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>§ 60.482-8(a)<br>§ 60.482-8(a)(2)<br>§ 60.482-8(c)(1)<br>§ 60.482-8(c)(2)<br>§ 60.482-8(d)<br>§ 60.482-9(a)<br>§ 60.482-9(b)<br>§ 60.486(k) | For flanges and other connectors, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.   | § 60.482-8(a)(1)<br>§ 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(d)<br>§ 60.485(f)                   | § 60.482-1(g)<br>[G]§ 60.486(a)<br>[G]§ 60.486(b)<br>[G]§ 60.486(c)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>§ 60.486(j)    | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |
| 5-2-FUGITIV               | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | [G]§ 60.482-10(g)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>[G]§ 60.482-10(f)<br>§ 60.482-10(h)<br>§ 60.482-10(i)<br>[G]§ 60.482-10(j)<br>[G]§ 60.482-10(k)<br>§ 60.482-10(m)<br>§ 60.486(k)        | Leaks, as indicated by the specified instrument or by visual inspections, shall be repaired as soon as practicable except as provided in § 60.482-10(h). § 60.482-10(g)(1)-(2) | § 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(d)<br>§ 60.485(f)                                       | § 60.482-1(g)<br>[G]§ 60.482-10(l)<br>[G]§ 60.486(a)<br>[G]§ 60.486(d)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>§ 60.486(j) | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)   | Reporting Requirements (30 TAC § 122.145)                      |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|--|---|--|
| 5-2-FUGITIV               | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-10(d)<br>§ 60.18<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>§ 60.482-10(m)<br>§ 60.486(k) | Flares used to comply with this subpart shall comply with the requirements of §60.18.   | § 60.482-10(e)<br>§ 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(c)<br>[G]§ 60.485(d)<br>§ 60.485(f)<br>[G]§ 60.485(g) | § 60.482-1(g)<br>[G]§ 60.486(a)<br>[G]§ 60.486(d)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>§ 60.486(j) | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |
| 5-2-R100                  | EP                      | 60RRR-1       | VOC/TOC   | 40 CFR Part 60, Subpart RRR           | § 60.700(c)(5)  | Vent streams routed to distillation units subject to subpart NNN with no other air releases except for a pressure relief valve, are exempt from all provisions of this subpart except for §60.705(r). | None   | None  | § 60.705(r)  |
| 5-3-D302                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.   | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7)   | None   |
| 5-3-D303                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.   | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7)   | None   |
| 5-3-D309                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.   | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7)                       | None   |



### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name            | Emission Limitation, Standard or Equipment Specification Citation                    | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements                                      | Recordkeeping Requirements (30 TAC § 122.144)                               | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|--|---|---|
| 5-3-D325                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs              | § 115.111(a)(1)  | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.   | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7)                       | None                                      |
| 5-3-D326A                 | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs              | § 115.111(a)(1)  | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.   | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7) | None                                      |
| 5-3-D326B                 | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs              | § 115.111(a)(1)  | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.   | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7) | None                                      |
| 5-3-D399                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs              | § 115.111(a)(1)  | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.   | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7)                       | None                                      |
| 5-4-2EHOLL                | EU                      | 115C-1        | VOC       | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(1)<br>§ 115.214(a)(1)(B)<br>§ 115.214(a)(1)(D)<br>§ 115.214(a)(1)(D)(i) | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified. | § 115.214(a)(1)(A)<br>§ 115.214(a)(1)(A)(i)<br>§ 115.215<br>§ 115.215(4) | § 115.216<br>§ 115.216(2)<br>§ 115.216(3)(B)                                | None                                      |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name            | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)                                      | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|---|--|---|
| 5-4-2EHOLM                | EU                      | 115C-1        | VOC       | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(5)(B)<br>§ 115.212(a)(6)(D)<br>§ 115.214(a)(3)(C)<br>§ 115.214(a)(3)(G)<br>§ 115.214(a)(3)(G)(i)<br>§ 115.217(a)(5)(B)(iii) | The marine vessel transfer operations specified in § 115.217(a)(5)(B)(i)-(iv) are exempt from the requirements of §§ 115.212(a), 115.214(a), and 115.216 of this title, except as noted.  | § 115.214(a)(3)(B)<br>§ 115.214(a)(3)(B)(i)<br>§ 115.215<br>§ 115.215(4)              | § 115.216<br>§ 115.216(2)  | None                                      |
| 5-4-31                    | EP                      | 115B-1        | VOC       | 30 TAC Chapter 115, Vent Gas Controls            | § 115.122(a)(2)<br>§ 115.121(a)(2)<br>§ 115.122(a)(2)(B)   | Any vent gas streams affected by §115.121(a)(2) of this title must be controlled properly with a control efficiency of at least 98% or to a VOC concentration of no more than 20 ppmv (on a dry basis corrected to 3.0% oxygen for combustion devices). | [G]§ 115.125<br>§ 115.126(1)<br>§ 115.126(1)(A)<br>§ 115.126(1)(A)(i)<br>§ 115.126(2) | § 115.126<br>§ 115.126(1)<br>§ 115.126(1)(A)<br>§ 115.126(1)(A)(i)<br>§ 115.126(2) | None                                      |
| 5-4-D409A                 | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs              | § 115.111(a)(1)  | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.   | [G]§ 115.117  | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7)        | None                                      |
| 5-4-D422                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs              | § 115.111(a)(1)  | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.   | [G]§ 115.117  | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7)                              | None                                      |
| 5-4-D425                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs              | § 115.111(a)(1)  | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than  | [G]§ 115.117  | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7)        | None                                      |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements                                | Recordkeeping Requirements (30 TAC § 122.144)                               | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|--|---|---|
|                           |                         |               |           |                                       |   | 1.5 psia is exempt from the requirements of this division.  |  |   |   |
| 5-4-D426A                 | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.   | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7) | None                                      |
| 5-4-D426B                 | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.   | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7) | None                                      |
| 5-4-D426C                 | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.   | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7) | None                                      |
| 5-4-D491                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.112(e)(1)<br>§ 115.112(e)(3)<br>§ 115.112(e)(3)(A)<br>§ 115.112(e)(3)(A)(i)<br>§ 115.112(e)(3)(A)(ii) | No person shall place, store, or hold VOC in any storage tank unless the storage tank is capable of maintaining working pressure sufficient at all times to prevent any vapor or gas loss to the atmosphere or is in compliance with the control requirements specified in Table 1 of this paragraph for VOC other than crude oil and | § 115.115(a)<br>§ 115.115(a)(1)<br>§ 115.116(a)(1)<br>[G]§ 115.117 | § 115.118(a)(4)<br>§ 115.118(a)(4)(A)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7) | None                                      |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name            | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)   | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|--|---|---|
|                           |                         |               |           |  |   | condensate or Table 2 of subsection (a)(1) of this paragraph for crude oil and condensate.   |  |   |   |
| 5-4-D499                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs              | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.  | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7)   | None                                      |
| 5-4-IBALU                 | EU                      | 115C-1        | VOC       | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.212(a)(3)<br>§ 115.212(a)(2)<br>§ 115.212(a)(3)(A)<br>§ 115.212(a)(3)(A)(i)<br>§ 115.212(a)(3)(B)<br>[G]§ 115.212(a)(3)(C)<br>§ 115.212(a)(3)(D)<br>§ 115.214(a)(1)(B)<br>§ 115.214(a)(1)(C)    | All land-based VOC transfer to or from transport vessels shall be conducted in the manner specified for leak-free operations.  | § 115.212(a)(3)(B)<br>§ 115.214(a)(1)(A)<br>§ 115.214(a)(1)(A)(i)<br>§ 115.214(a)(1)(A)(ii)<br>§ 115.214(a)(1)(A)(iii)   | § 115.216<br>§ 115.216(3)(A)<br>§ 115.216(3)(A)(i)<br>§ 115.216(3)(A)(iii)  | None                                      |
| 5-4-LIBOL                 | EU                      | 115C-1        | VOC       | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.212(a)(1)<br>§ 115.212(a)(1)(A)<br>§ 115.212(a)(3)(A)<br>§ 115.212(a)(3)(A)(i)<br>§ 115.212(a)(3)(B)<br>[G]§ 115.212(a)(3)(C)<br>§ 115.212(a)(3)(E)<br>§ 115.214(a)(1)(B)<br>§ 115.214(a)(1)(C) | At operations other than gasoline terminals, gasoline bulk plants, and marine terminals, vapors from loading VOC with a true vapor pressure of 0.5 psia or greater must be controlled by one of the methods specified in § 115.212(a)(1)(A)-(C). | § 115.212(a)(3)(B)<br>§ 115.214(a)(1)(A)<br>§ 115.214(a)(1)(A)(i)<br>§ 115.214(a)(1)(A)(ii)<br>§ 115.214(a)(1)(A)(iii)<br>§ 115.215<br>§ 115.215(1)<br>§ 115.215(10)<br>[G]§ 115.215(2)<br>§ 115.215(4)<br>§ 115.215(9)<br>§ 115.216(1)<br>§ 115.216(1)(A)<br>§ 115.216(1)(A)(i) | § 115.216<br>§ 115.216(1)<br>§ 115.216(1)(A)<br>§ 115.216(1)(A)(i)<br>§ 115.216(2)<br>§ 115.216(3)(A)<br>§ 115.216(3)(A)(i)<br>§ 115.216(3)(A)(ii)<br>§ 115.216(3)(A)(iii)<br>§ 115.216(3)(B) | None                                      |
| 5-4-LOAD                  | EU                      | 115C-1        | VOC       | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(1)<br>§ 115.214(a)(1)(B)<br>§ 115.214(a)(1)(D)<br>§ 115.214(a)(1)(D)(i)  | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a  | § 115.214(a)(1)(A)<br>§ 115.214(a)(1)(A)(i)<br>§ 115.215<br>§ 115.215(4)   | § 115.216<br>§ 115.216(2)<br>§ 115.216(3)(B)  | None                                      |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name            | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)   | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)                               | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|---|--|---|---|
|                           |                         |               |           |  |  | true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified.   |  |   |   |
| 5-4-NBOLL                 | EU                      | 115C-1        | VOC       | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(1)<br>§ 115.214(a)(1)(B)<br>§ 115.214(a)(1)(D)<br>§ 115.214(a)(1)(D)(i)   | Vapor pressure (at land-based operations). All land-based loading and unloading of VOC with a true vapor pressure less than 0.5 psia is exempt from the requirements of this division, except as specified. | § 115.214(a)(1)(A)<br>§ 115.214(a)(1)(A)(i)<br>§ 115.215<br>§ 115.215(4)   | § 115.216<br>§ 115.216(2)<br>§ 115.216(3)(B)                                | None                                      |
| 5-4-NBOLM                 | EU                      | 115C-1        | VOC       | 30 TAC Chapter 115, Loading and Unloading of VOC | § 115.217(a)(5)(B)<br>§ 115.212(a)(6)(D)<br>§ 115.214(a)(3)(C)<br>§ 115.214(a)(3)(G)<br>§ 115.214(a)(3)(G)(i)<br>§ 115.217(a)(5)(B)(iii) | The marine vessel transfer operations specified in § 115.217(a)(5)(B)(i)-(iv) are exempt from the requirements of §§ 115.212(a), 115.214(a), and 115.216 of this title, except as noted.                    | § 115.214(a)(3)(B)<br>§ 115.214(a)(3)(B)(i)<br>§ 115.215<br>§ 115.215(4)   | § 115.216<br>§ 115.216(2)   | None                                      |
| 5-4-P511                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Industrial Wastewater        | § 115.147(2)<br>[G]§ 115.142(4)<br>[G]§ 115.148  | An owner or operator may exempt from control requirements of §115.142 one or more affected VOC wastewater streams for which the total annual VOC loading is less than or equal to 10 Mg (11.03 tons).       | § 115.145<br>§ 115.145(1)<br>§ 115.145(10)<br>[G]§ 115.145(2)<br>[G]§ 115.145(3)<br>§ 115.145(4)<br>§ 115.145(5)<br>§ 115.145(6)<br>§ 115.145(7)<br>§ 115.145(9)<br>[G]§ 115.148 | § 115.146(1)<br>§ 115.146(3)<br>§ 115.146(4)                                | [G]§ 115.142(4)                           |
| 5-5-D509A                 | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs              | § 115.111(a)(1)  | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than  | [G]§ 115.117   | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7) | None                                      |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145)  |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|---|--|--|
|                           |                         |               |           |                                       |   | 1.5 psia is exempt from the requirements of this division.   |   |  |  |
| 5-5-D525                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.  | [G]§ 115.117  | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(7)  | None   |
| 5-5-D526                  | EU                      | 115B-1        | VOC       | 30 TAC Chapter 115, Storage of VOCs   | § 115.111(a)(1)   | Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.  | [G]§ 115.117  | § 115.118(a)(1)<br>§ 115.118(a)(5)<br>§ 115.118(a)(6)(A)<br>§ 115.118(a)(7)  | None   |
| GRP-NNNH1                 | EP                      | 60NNN-1       | VOC/TOC   | 40 CFR Part 60, Subpart NNN           | § 60.662(a)   | Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater. | § 60.663(c)<br>§ 60.663(c)(1)<br>§ 60.663(d)<br>§ 60.664(c)   | § 60.663(c)(1)<br>§ 60.663(d)<br>§ 60.665(b)<br>§ 60.665(b)(2)<br>§ 60.665(b)(2)(i)<br>§ 60.665(c)<br>§ 60.665(c)(4)<br>§ 60.665(c)(4)<br>§ 60.665(d)<br>§ 60.665(e)                   | § 60.665(a)<br>§ 60.665(b)<br>§ 60.665(b)(2)<br>§ 60.665(b)(2)(i)<br>§ 60.665(c)<br>§ 60.665(c)(4)<br>§ 60.665(k)<br>§ 60.665(l)<br>§ 60.665(l)(1)<br>§ 60.665(l)(2)<br>§ 60.665(l)(3) |
| GRP-NNNT05                | EP                      | 60NNN-1       | VOC/TOC   | 40 CFR Part 60, Subpart NNN           | § 60.662(a)   | Affected facilities shall reduce TOC emissions by 98 weight-percent or to a concentration of 20ppmv, whichever is less stringent. Introduce the stream into the flame zone of a boiler/process heater. | § 60.663(a)<br>§ 60.663(a)(1)<br>§ 60.663(a)(1)(i)<br>§ 60.663(a)(2)<br>§ 60.664(a)<br>§ 60.664(b)<br>§ 60.664(b)(1)<br>§ 60.664(b)(2)<br>§ 60.664(b)(3)<br>[G]§ 60.664(b)(4) | § 60.663(a)(1)<br>§ 60.663(a)(2)<br>§ 60.665(b)<br>[G]§ 60.665(b)(1)<br>§ 60.665(c)<br>§ 60.665(c)<br>§ 60.665(c)(1)<br>§ 60.665(k)<br>§ 60.665(l)<br>§ 60.665(l)(1)<br>§ 60.665(l)(2) | § 60.665(a)<br>§ 60.665(b)<br>[G]§ 60.665(b)(1)<br>§ 60.665(c)<br>§ 60.665(c)(1)<br>§ 60.665(k)<br>§ 60.665(l)<br>§ 60.665(l)(1)<br>§ 60.665(l)(2)                                     |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name              | Emission Limitation, Standard or Equipment Specification Citation | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements | Recordkeeping Requirements (30 TAC § 122.144)   | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|---|--|-------------------------------------|---|---|
| GRP-RRRH1                 | EP                      | 60RRR-1       | VOC/TOC   | 40 CFR Part 60, Subpart RRR                        | § 60.700(c)(5)  | Vent streams routed to distillation units subject to subpart NNN with no other air releases except for a pressure relief valve, are exempt from all provisions of this subpart except for §60.705(r).  | None                                | None  | § 60.705(r)                               |
| PROOXO                    | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(10)   | Instrumentation systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet 40 CFR §63.169 (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title.                                    | None                                | § 115.356<br>§ 115.356(3)<br>[G]§ 115.356(3)(C) | None                                      |
| PROOXO                    | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(11)   | Sampling connection systems, as defined in 40 CFR §63.161 (January 17, 1997), that meet the requirements of 40 CFR §63.166(a) and (b) (June 20, 1996) are exempt from the requirements of this division except §115.356(3)(C) of this title. | None                                | § 115.356<br>§ 115.356(3)<br>[G]§ 115.356(3)(C) | None                                      |
| PROOXO                    | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(13)   | Components/systems that contact a process fluid containing VOC having a true vapor pressure equal to or less than 0.002 psia at 68 degrees Fahrenheit are exempt from the requirements of this division except §115.356(3)(C) of this        | None                                | § 115.356<br>§ 115.356(3)<br>[G]§ 115.356(3)(C) | None                                      |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name              | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|--|--|---|
|                           |                         |               |           |  |  | title.   |  |  |   |
| PROOXO                    | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.357(2)<br>§ 115.352(9)   | Each pressure relief valve equipped with a rupture disk must comply with §115.352(9) and §115.356(3)(C).   | None   | § 115.356<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)  | None                                      |
| PROOXO                    | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.352(9)<br>§ 115.357(12)<br>§ 115.357(8)<br>§ 115.357(9)                | No pressure relief valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(4)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(9)<br>[G]§ 115.355 | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5) | [G]§ 115.354(7)                           |
| PROOXO                    | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(4)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.357(1)<br>§ 115.357(8)<br>§ 115.357(9) | No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.                 | § 115.354(1)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>[G]§ 115.354(7)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)                  | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5)  | [G]§ 115.354(7)                           |
| PROOXO                    | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)  | No valves shall be allowed to have a VOC leak, for more than 15 days after discovery, which exceeds a screening concentration  | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)  | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)   | [G]§ 115.354(7)                           |



### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name              | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|--|--|---|
|                           |                         |               |           |  | § 115.352(2)(B)<br>§ 115.352(3)<br>§ 115.352(4)<br>§ 115.352(5)<br>§ 115.352(6)<br>§ 115.352(7)<br>§ 115.357(12)<br>§ 115.357(8)<br>§ 115.357(9)   | greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.   | [G]§ 115.354(7)<br>§ 115.354(9)<br>[G]§ 115.355  | § 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5)   |   |
| PROOXO                    | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.352(8)<br>§ 115.357(1)<br>§ 115.357(12)<br>§ 115.357(8) | No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1)<br>§ 115.354(11)<br>§ 115.354(3)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)                  | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5)                  | None                                      |
| PROOXO                    | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(A)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.352(8)<br>§ 115.357(12)<br>§ 115.357(8)                 | No flanges or other connectors shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 500 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(11)<br>§ 115.354(3)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1) | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5) | None                                      |
| PROOXO                    | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)   | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which   | [G]§ 115.355   | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)  | None                                      |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name              | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145) |
|---------------------------|-------------------------|---------------|-----------|--|--|--|---|--|---|
|                           |                         |               |           |  | § 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(4)<br>§ 115.357(8)  | exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound.  |   | § 115.356(3)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5)   |   |
| PROOXO                    | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(1)<br>§ 115.357(8)  | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355<br>§ 115.357(1)  | § 115.352(7)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5)  | None                                      |
| PROOXO                    | EU                      | 115D-1        | VOC       | 30 TAC Chapter 115, Pet. Refinery & Petrochemicals | § 115.352(1)(B)<br>§ 115.352(1)<br>§ 115.352(10)<br>§ 115.352(2)<br>§ 115.352(2)(A)<br>§ 115.352(2)(C)<br>§ 115.352(2)(C)(i)<br>§ 115.352(2)(C)(ii)<br>§ 115.352(2)(C)(iii)<br>§ 115.352(3)<br>§ 115.352(5)<br>§ 115.352(7)<br>§ 115.357(12)<br>§ 115.357(8) | No pump seals shall be allowed to have a VOC leak, for more than 15 days after discovery which exceeds a screening concentration greater than 10,000 parts per million by volume above background as methane, or the dripping or exuding of process fluid based on sight, smell, or sound. | § 115.354(1)<br>§ 115.354(10)<br>§ 115.354(2)<br>§ 115.354(5)<br>§ 115.354(6)<br>§ 115.354(9)<br>[G]§ 115.355 | § 115.352(7)<br>§ 115.354(10)<br>§ 115.356<br>[G]§ 115.356(1)<br>[G]§ 115.356(2)<br>§ 115.356(3)<br>§ 115.356(3)(A)<br>§ 115.356(3)(B)<br>[G]§ 115.356(3)(C)<br>§ 115.356(5) | None                                      |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements   | Recordkeeping Requirements (30 TAC § 122.144)   | Reporting Requirements (30 TAC § 122.145)                      |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|---|---|--|
| PROOXO                    | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-2(b)(1)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>§ 60.482-2(a)(2)<br>[G]§ 60.482-2(b)(2)<br>§ 60.482-2(c)(1)<br>[G]§ 60.482-2(c)(2)<br>§ 60.482-2(d)<br>[G]§ 60.482-2(d)(1)<br>§ 60.482-2(d)(2)<br>§ 60.482-2(d)(3)<br>[G]§ 60.482-2(d)(4)<br>[G]§ 60.482-2(d)(5)<br>[G]§ 60.482-2(d)(6)<br>[G]§ 60.482-2(e)<br>§ 60.482-2(f)<br>[G]§ 60.482-2(g)<br>§ 60.482-2(h)<br>§ 60.482-9(a)<br>§ 60.482-9(b)<br>[G]§ 60.482-9(d)<br>§ 60.482-9(f)<br>§ 60.486(k) | If an instrument reading of 10,000 ppm or greater is measured for pumps in light liquid service, a leak is detected.   | § 60.482-1(f)(1)<br>§ 60.482-1(f)(2)<br>[G]§ 60.482-1(f)(3)<br>§ 60.482-2(a)(1)<br>[G]§ 60.482-2(b)(2)<br>[G]§ 60.482-2(d)(4)<br>§ 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(c)<br>[G]§ 60.485(d)<br>[G]§ 60.485(e)<br>§ 60.485(f) | § 60.482-1(g)<br>[G]§ 60.486(a)<br>[G]§ 60.486(b)<br>[G]§ 60.486(c)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>[G]§ 60.486(e)(2)<br>[G]§ 60.486(e)(4)<br>[G]§ 60.486(f)<br>[G]§ 60.486(h)<br>§ 60.486(j) | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |
| PROOXO                    | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-5(a)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>[G]§ 60.482-5(b)<br>§ 60.482-5(c)<br>§ 60.486(k)   | Each sampling connection system shall be equipped with a closed-purge, closed-loop, or closed-vent system, except as provided in §60.482-1(c) and paragraph (c) of this section. | § 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(d)<br>§ 60.485(f)  | § 60.482-1(g)<br>[G]§ 60.486(a)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>§ 60.486(j)   | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |
| PROOXO                    | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-7(b)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>§ 60.482-7(d)(1)<br>§ 60.482-7(d)(2)<br>[G]§ 60.482-7(e)<br>[G]§ 60.482-7(f)   | If an instrument reading of 10,000 ppm or greater is measured for valves in gas/vapor service and in light liquid service, a leak is detected.                                   | § 60.482-1(f)(1)<br>§ 60.482-1(f)(2)<br>[G]§ 60.482-1(f)(3)<br>§ 60.482-7(a)(1)<br>[G]§ 60.482-7(a)(2)<br>§ 60.482-7(c)(1)(i)<br>§ 60.482-7(c)(1)(iii)<br>§ 60.482-7(c)(2)  | § 60.482-1(g)<br>[G]§ 60.486(a)<br>[G]§ 60.486(b)<br>[G]§ 60.486(c)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>[G]§ 60.486(e)(2)<br>[G]§ 60.486(e)(4)  | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation  | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)   | Reporting Requirements (30 TAC § 122.145)                      |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|--|--|--|---|--|
|                           |                         |               |           |                                       | [G]§ 60.482-7(g)<br>[G]§ 60.482-7(h)<br>§ 60.482-9(a)<br>§ 60.482-9(b)<br>[G]§ 60.482-9(c)<br>§ 60.482-9(e)<br>§ 60.482-9(f)<br>§ 60.486(k)  |  | § 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(c)<br>[G]§ 60.485(d)<br>[G]§ 60.485(e)<br>§ 60.485(f) | [G]§ 60.486(f)<br>§ 60.486(j)   |  |
| PROOXO                    | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-8(b)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>§ 60.482-8(a)<br>§ 60.482-8(a)(2)<br>§ 60.482-8(c)(1)<br>§ 60.482-8(c)(2)<br>§ 60.482-8(d)<br>§ 60.482-9(a)<br>§ 60.482-9(b)<br>[G]§ 60.482-9(d)<br>§ 60.482-9(f)<br>§ 60.486(k) | For pumps in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.  | § 60.482-8(a)(1)<br>§ 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(d)<br>§ 60.485(f)                 | § 60.482-1(g)<br>[G]§ 60.486(a)<br>[G]§ 60.486(b)<br>[G]§ 60.486(c)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>§ 60.486(j) | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |
| PROOXO                    | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-8(b)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>§ 60.482-8(a)<br>§ 60.482-8(a)(2)<br>§ 60.482-8(c)(1)<br>§ 60.482-8(c)(2)<br>§ 60.482-8(d)<br>§ 60.482-9(a)<br>§ 60.482-9(b)<br>§ 60.482-9(e)<br>§ 60.482-9(f)<br>§ 60.486(k)    | For valves in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected. | § 60.482-8(a)(1)<br>§ 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(d)<br>§ 60.485(f)                 | § 60.482-1(g)<br>[G]§ 60.486(a)<br>[G]§ 60.486(b)<br>[G]§ 60.486(c)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>§ 60.486(j) | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)  | Monitoring And Testing Requirements  | Recordkeeping Requirements (30 TAC § 122.144)  | Reporting Requirements (30 TAC § 122.145)                      |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|--|--|--|--|
| PROOXO                    | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-8(b)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>§ 60.482-8(a)<br>§ 60.482-8(a)(2)<br>§ 60.482-8(c)(1)<br>§ 60.482-8(c)(2)<br>§ 60.482-8(d)<br>§ 60.482-9(a)<br>§ 60.482-9(b)<br>§ 60.486(k) | For pressure relief devices in light liquid or in heavy liquid service, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.                     | § 60.482-8(a)(1)<br>§ 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(d)<br>[G]§ 60.485(e)<br>§ 60.485(f) | § 60.482-1(g)<br>[G]§ 60.486(a)<br>[G]§ 60.486(b)<br>[G]§ 60.486(c)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>§ 60.486(j)    | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |
| PROOXO                    | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-8(b)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>§ 60.482-8(a)<br>§ 60.482-8(a)(2)<br>§ 60.482-8(c)(1)<br>§ 60.482-8(c)(2)<br>§ 60.482-8(d)<br>§ 60.482-9(a)<br>§ 60.482-9(b)<br>§ 60.486(k) | For flanges and other connectors, if an instrument reading of 10,000 ppm or greater is measured, a leak is detected.   | § 60.482-8(a)(1)<br>§ 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(d)<br>§ 60.485(f)                   | § 60.482-1(g)<br>[G]§ 60.486(a)<br>[G]§ 60.486(b)<br>[G]§ 60.486(c)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>§ 60.486(j)    | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |
| PROOXO                    | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | [G]§ 60.482-10(g)<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>[G]§ 60.482-10(f)<br>§ 60.482-10(h)<br>§ 60.482-10(i)<br>[G]§ 60.482-10(j)<br>[G]§ 60.482-10(k)<br>§ 60.482-10(m)<br>§ 60.486(k)        | Leaks, as indicated by the specified instrument or by visual inspections, shall be repaired as soon as practicable except as provided in § 60.482-10(h). § 60.482-10(g)(1)-(2) | § 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(d)<br>§ 60.485(f)                                       | § 60.482-1(g)<br>[G]§ 60.482-10(l)<br>[G]§ 60.486(a)<br>[G]§ 60.486(d)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>§ 60.486(j) | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |

### Applicable Requirements Summary

| Unit Group Process ID No. | Unit Group Process Type | SOP Index No. | Pollutant | State Rule or Federal Regulation Name | Emission Limitation, Standard or Equipment Specification Citation   | Textual Description (See Special Term and Condition 1.B.)                             | Monitoring And Testing Requirements  | Recordkeeping Requirements<br>(30 TAC § 122.144)  | Reporting Requirements<br>(30 TAC § 122.145)                   |
|---------------------------|-------------------------|---------------|-----------|---------------------------------------|---|---|--|---|--|
| PROOXO                    | EU                      | 60VV-1        | VOC       | 40 CFR Part 60, Subpart VV            | § 60.482-10(d)<br>§ 60.18<br>§ 60.482-1(a)<br>§ 60.482-1(b)<br>§ 60.482-1(g)<br>§ 60.482-10(m)<br>§ 60.486(k) | Flares used to comply with this subpart shall comply with the requirements of §60.18. | § 60.482-10(e)<br>§ 60.485(a)<br>[G]§ 60.485(b)<br>[G]§ 60.485(c)<br>[G]§ 60.485(d)<br>§ 60.485(f)<br>[G]§ 60.485(g) | § 60.482-1(g)<br>[G]§ 60.486(a)<br>[G]§ 60.486(d)<br>§ 60.486(e)<br>§ 60.486(e)(1)<br>§ 60.486(j) | § 60.487(a)<br>[G]§ 60.487(b)<br>[G]§ 60.487(c)<br>§ 60.487(e) |

**Additional Monitoring Requirements**

**Periodic Monitoring Summary ..... 54**

### Periodic Monitoring Summary

| Unit/Group/Process Information   |                                   |
|--|-----------------------------------|
| ID No.: 5-1-31   |                                   |
| Control Device ID No.: N/A   | Control Device Type: N/A          |
| Applicable Regulatory Requirement  |                                   |
| Name: 30 TAC Chapter 111, Visible Emissions  | SOP Index No.: 111A-1             |
| Pollutant: Opacity   | Main Standard: § 111.111(a)(1)(C) |
| Monitoring Information   |                                   |
| Indicator: Visible Emissions   |                                   |
| Minimum Frequency: once per week   |                                   |
| Averaging Period: n/a  |                                   |
| <p>Deviation Limit: There shall be no visible emissions. If visible emissions are observed, the permit holder shall either report a deviation or perform Test Method 9 and opacity shall not exceed 15%.</p> <p>Periodic Monitoring Text: Visible emissions observations shall be made and recorded. Note that to properly determine the presence of visible emissions, all sources must be in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 miles, away from the emission source during the observation. The observer shall select a position where the sun is not directly in the observer's eyes. If the observations cannot be conducted due to weather conditions, the date, time, and specific weather conditions shall be recorded. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor.</p> <p>If visible emissions are observed, the permit holder shall report a deviation. As an alternative, the permit holder may determine the opacity consistent with Test Method 9, as soon as practicable, but no later than 24 hours after observing visible emissions. If the result of the Test Method 9 is opacity above the opacity limit in the applicable requirement, the permit holder shall report a deviation.</p> |                                   |



### Periodic Monitoring Summary

| Unit/Group/Process Information  |   |
|---|---|
| ID No.: 5-1-31  |   |
| Control Device ID No.: 5-1-H1   | Control Device Type: Steam Generating Unit (Boiler)/Process Heater (Design heat input is greater than or equal to 44MW) |
| Applicable Regulatory Requirement   |   |
| Name: 30 TAC Chapter 115, Vent Gas Controls   | SOP Index No.: 115B-1   |
| Pollutant: VOC  | Main Standard: § 115.122(a)(2)  |
| Monitoring Information  |   |
| Indicator: Period of Operation  |   |
| Minimum Frequency: n/a  |   |
| Averaging Period: n/a   |   |
| Deviation Limit:<br>All periods of operation that are not recorded shall be considered and reported as a deviation.   |   |
| Periodic Monitoring Text: Monitor and record the periods of operation of the steam generating units or process heater. All periods that are not recorded shall be considered and reported as a deviation. The records must be readily available for inspection. |   |

### Periodic Monitoring Summary

| Unit/Group/Process Information  |  |
|---|--|
| ID No.: 5-2-D122  |  |
| Control Device ID No.: 5-4-TO5  | Control Device Type: Vapor Collection System |
| Applicable Regulatory Requirement   |  |
| Name: 40 CFR Part 60, Subpart Kb  | SOP Index No.: 60Kb-1                        |
| Pollutant: VOC  | Main Standard: [G]§ 60.112b(a)(3)            |
| Monitoring Information  |  |
| Indicator: VOC Concentration  |  |
| Minimum Frequency: Once per year  |  |
| Averaging Period: n/a   |  |
| Deviation Limit: Measure and record fugitive emissions from the vapor collection system. An instrument reading of greater than or equal to 500 ppm above background shall be reported as a deviation. |  |
| Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.   |  |

### Periodic Monitoring Summary

| Unit/Group/Process Information  |  |
|---|--|
| ID No.: 5-2-D122  |  |
| Control Device ID No.: 5-4-TO5  | Control Device Type: Vapor Collection System |
| Applicable Regulatory Requirement   |  |
| Name: 40 CFR Part 60, Subpart Kb  | SOP Index No.: 60Kb-1                        |
| Pollutant: VOC  | Main Standard: [G]§ 60.112b(a)(3)            |
| Monitoring Information  |  |
| Indicator: Visual Inspection  |  |
| Minimum Frequency: Once per year  |  |
| Averaging Period: n/a   |  |
| Deviation Limit: Visually inspect all components of the vapor collection system for defects. Failure to inspect or detection of defects shall be reported as a deviation.   |  |
| Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions. |  |

### Periodic Monitoring Summary

| Unit/Group/Process Information   |   |
|--|---|
| ID No.: 5-2-D122   |   |
| Control Device ID No.: 5-4-TO5   | Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer) |
| Applicable Regulatory Requirement  |   |
| Name: 40 CFR Part 60, Subpart Kb   | SOP Index No.: 60Kb-1   |
| Pollutant: VOC   | Main Standard: [G]§ 60.112b(a)(3)   |
| Monitoring Information   |   |
| Indicator: Combustion Temperature / Exhaust Gas Temperature  |   |
| Minimum Frequency: Once per week   |   |
| Averaging Period: n/a  |   |
| Deviation Limit: Minimum combustion temperature shall not be below 740 degrees Celsius.  |   |
| <p>Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> |   |

### Periodic Monitoring Summary

| Unit/Group/Process Information  |  |
|---|--|
| ID No.: 5-2-D204  |  |
| Control Device ID No.: 5-4-TO5  | Control Device Type: Vapor Collection System |
| Applicable Regulatory Requirement   |  |
| Name: 40 CFR Part 60, Subpart Kb  | SOP Index No.: 60Kb-1                        |
| Pollutant: VOC  | Main Standard: [G]§ 60.112b(a)(3)            |
| Monitoring Information  |  |
| Indicator: VOC Concentration  |  |
| Minimum Frequency: Once per year  |  |
| Averaging Period: n/a   |  |
| Deviation Limit: Measure and record fugitive emissions from the vapor collection system. An instrument reading of greater than or equal to 500 ppm above background shall be reported as a deviation. |  |
| Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.   |  |

### Periodic Monitoring Summary

| Unit/Group/Process Information  |  |
|---|--|
| ID No.: 5-2-D204  |  |
| Control Device ID No.: 5-4-TO5  | Control Device Type: Vapor Collection System |
| Applicable Regulatory Requirement   |  |
| Name: 40 CFR Part 60, Subpart Kb  | SOP Index No.: 60Kb-1                        |
| Pollutant: VOC  | Main Standard: [G]§ 60.112b(a)(3)            |
| Monitoring Information  |  |
| Indicator: Visual Inspection  |  |
| Minimum Frequency: Once per year  |  |
| Averaging Period: n/a   |  |
| Deviation Limit: Visually inspect all components of the vapor collection system for defects. Failure to inspect or detection of defects shall be reported as a deviation.   |  |
| Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions. |  |

### Periodic Monitoring Summary

| Unit/Group/Process Information   |   |
|--|---|
| ID No.: 5-2-D204   |   |
| Control Device ID No.: 5-4-TO5   | Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer) |
| Applicable Regulatory Requirement  |   |
| Name: 40 CFR Part 60, Subpart Kb   | SOP Index No.: 60Kb-1   |
| Pollutant: VOC   | Main Standard: [G]§ 60.112b(a)(3)   |
| Monitoring Information   |   |
| Indicator: Combustion Temperature / Exhaust Gas Temperature  |   |
| Minimum Frequency: Once per week   |   |
| Averaging Period: n/a  |   |
| Deviation Limit: Minimum combustion temperature shall not be below 740 degrees Celsius.  |   |
| <p>Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> |   |

### Periodic Monitoring Summary

| Unit/Group/Process Information  |  |
|---|--|
| ID No.: 5-2-D208  |  |
| Control Device ID No.: 5-4-TO5  | Control Device Type: Vapor Collection System |
| Applicable Regulatory Requirement   |  |
| Name: 40 CFR Part 60, Subpart Kb  | SOP Index No.: 60Kb-1                        |
| Pollutant: VOC  | Main Standard: [G]§ 60.112b(a)(3)            |
| Monitoring Information  |  |
| Indicator: VOC Concentration  |  |
| Minimum Frequency: Once per year  |  |
| Averaging Period: n/a   |  |
| Deviation Limit: Measure and record fugitive emissions from the vapor collection system. An instrument reading of greater than or equal to 500 ppm above background shall be reported as a deviation. |  |
| Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.   |  |



### Periodic Monitoring Summary

| Unit/Group/Process Information  |  |
|---|--|
| ID No.: 5-2-D208  |  |
| Control Device ID No.: 5-4-TO5  | Control Device Type: Vapor Collection System |
| Applicable Regulatory Requirement   |  |
| Name: 40 CFR Part 60, Subpart Kb  | SOP Index No.: 60Kb-1                        |
| Pollutant: VOC  | Main Standard: [G]§ 60.112b(a)(3)            |
| Monitoring Information  |  |
| Indicator: Visual Inspection  |  |
| Minimum Frequency: Once per year  |  |
| Averaging Period: n/a   |  |
| Deviation Limit: Visually inspect all components of the vapor collection system for defects. Failure to inspect or detection of defects shall be reported as a deviation.   |  |
| Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions. |  |

### Periodic Monitoring Summary

| Unit/Group/Process Information   |   |
|--|---|
| ID No.: 5-2-D208   |   |
| Control Device ID No.: 5-4-TO5   | Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer) |
| Applicable Regulatory Requirement  |   |
| Name: 40 CFR Part 60, Subpart Kb   | SOP Index No.: 60Kb-1   |
| Pollutant: VOC   | Main Standard: [G]§ 60.112b(a)(3)   |
| Monitoring Information   |   |
| Indicator: Combustion Temperature / Exhaust Gas Temperature  |   |
| Minimum Frequency: Once per week   |   |
| Averaging Period: n/a  |   |
| Deviation Limit: Minimum combustion temperature shall not be below 740 degrees Celsius.  |   |
| <p>Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> |   |

### Periodic Monitoring Summary

| Unit/Group/Process Information  |  |
|---|--|
| ID No.: 5-2-D209  |  |
| Control Device ID No.: 5-4-TO5  | Control Device Type: Vapor Collection System |
| Applicable Regulatory Requirement   |  |
| Name: 40 CFR Part 60, Subpart Kb  | SOP Index No.: 60Kb-1                        |
| Pollutant: VOC  | Main Standard: [G]§ 60.112b(a)(3)            |
| Monitoring Information  |  |
| Indicator: VOC Concentration  |  |
| Minimum Frequency: Once per year  |  |
| Averaging Period: n/a   |  |
| Deviation Limit: Measure and record fugitive emissions from the vapor collection system. An instrument reading of greater than or equal to 500 ppm above background shall be reported as a deviation. |  |
| Periodic Monitoring Text: Measure and record fugitive emissions from the vapor collection system in accordance with part 60, appendix A, method 21.   |  |

### Periodic Monitoring Summary

| Unit/Group/Process Information  |  |
|---|--|
| ID No.: 5-2-D209  |  |
| Control Device ID No.: 5-4-TO5  | Control Device Type: Vapor Collection System |
| Applicable Regulatory Requirement   |  |
| Name: 40 CFR Part 60, Subpart Kb  | SOP Index No.: 60Kb-1                        |
| Pollutant: VOC  | Main Standard: [G]§ 60.112b(a)(3)            |
| Monitoring Information  |  |
| Indicator: Visual Inspection  |  |
| Minimum Frequency: Once per year  |  |
| Averaging Period: n/a   |  |
| Deviation Limit: Visually inspect all components of the vapor collection system for defects. Failure to inspect or detection of defects shall be reported as a deviation.   |  |
| Periodic Monitoring Text: Visually inspect all components of the vapor collection system for defects, such as cracks, holes, gaps, loose connections, or broken or missing covers or other closure devices, that could result in air emissions. |  |

### Periodic Monitoring Summary

| Unit/Group/Process Information   |   |
|--|---|
| ID No.: 5-2-D209   |   |
| Control Device ID No.: 5-4-TO5   | Control Device Type: Thermal Incinerator (Direct Flame Incinerator/Regenerative Thermal Oxidizer) |
| Applicable Regulatory Requirement  |   |
| Name: 40 CFR Part 60, Subpart Kb   | SOP Index No.: 60Kb-1   |
| Pollutant: VOC   | Main Standard: [G]§ 60.112b(a)(3)   |
| Monitoring Information   |   |
| Indicator: Combustion Temperature / Exhaust Gas Temperature  |   |
| Minimum Frequency: Once per week   |   |
| Averaging Period: n/a  |   |
| Deviation Limit: Minimum combustion temperature shall not be below 740 degrees Celsius.  |   |
| <p>Periodic Monitoring Text: Measure and record the combustion temperature in the combustion chamber or immediately downstream of the combustion chamber. The monitoring instrumentation shall be maintained, calibrated and operated in accordance with manufacturer's specifications or other written procedures. Any monitoring data below the minimum limit shall be considered and reported as a deviation.</p> |   |

**Permit Shield**

**Permit Shield ..... 69**

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process |                              | Regulation                                | Basis of Determination  |
|--------------------|------------------------------|---|---|
| ID No.             | Group/<br>Inclusive<br>Units |   |   |
| 5-1-D161           | N/A                          | 30 TAC Chapter 115, Storage of VOCs       | Storage vessel capacity is less than 1000 gallons.  |
| 5-1-D161           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is less than 75 m3.   |
| 5-1-D6             | N/A                          | 30 TAC Chapter 115, Industrial Wastewater | Wastewater stream has a VOC concentration less than 1000 ppmv.  |
| 5-1-FL90           | N/A                          | 40 CFR Part 60, Subpart A                 | Flare is not used to comply with applicable subparts of 40 CFR parts 60 and 61.   |
| 5-1-T50            | N/A                          | 30 TAC Chapter 115, Industrial Wastewater | Wastewater stream has a VOC concentration less than 1000 ppmv.  |
| 5-2-CT20           | N/A                          | 40 CFR Part 63, Subpart Q                 | Industrial process cooling tower has not operated with chromium-based water treatment chemicals after 09/08/1994.       |
| 5-2-D111           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is less than 75 m3.   |
| 5-2-D124           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is less than 75 m3.   |
| 5-2-D132           | N/A                          | 30 TAC Chapter 115, Industrial Wastewater | Wastewater stream has a VOC concentration less than 1000 ppmv.  |
| 5-2-D155           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity greater than 75 m3 but less than 151 m3 storing a liquid with a maximum TVP less than 15.0 kPa. |
| 5-2-D158           | N/A                          | 30 TAC Chapter 115, Storage of VOCs       | Storage vessel capacity is less than 1000 gallons.  |
| 5-2-D158           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is less than 75 m3.   |
| 5-2-D202           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is less than 75 m3.   |
| 5-3-D302           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is less than 75 m3.   |
| 5-3-D303           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is less than 75 m3.   |
| 5-3-D308           | N/A                          | 30 TAC Chapter 115, Storage of VOCs       | Storage vessel capacity is less than 1000 gallons.  |
| 5-3-D308           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is less than 75 m3.   |

### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process |                              | Regulation                                | Basis of Determination  |
|--------------------|------------------------------|---|---|
| ID No.             | Group/<br>Inclusive<br>Units |   |   |
| 5-3-D309           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity greater than 75 m3 but less than 151 m3 storing a liquid with a maximum TVP less than 15.0 kPa. |
| 5-3-D325           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is less than 75 m3.   |
| 5-3-D326A          | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is greater than 151 m3 storing a liquid with a maximum TVP less than 3.5 kPa.                   |
| 5-3-D326B          | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is greater than 151 m3 storing a liquid with a maximum TVP less than 3.5 kPa.                   |
| 5-3-D399           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is less than 75 m3.   |
| 5-3-P302           | N/A                          | 30 TAC Chapter 115, Industrial Wastewater | Wastewater stream has a VOC concentration less than 1000 ppmv.  |
| 5-4-D409A          | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is greater than 151 m3 storing a liquid with a maximum TVP less than 3.5 kPa.                   |
| 5-4-D422           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is less than 75 m3.   |
| 5-4-D425           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is greater than 151 m3 storing a liquid with a maximum TVP less than 3.5 kPa.                   |
| 5-4-D426A          | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is greater than 151 m3 storing a liquid with a maximum TVP less than 3.5 kPa.                   |
| 5-4-D426B          | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is greater than 151 m3 storing a liquid with a maximum TVP less than 3.5 kPa.                   |
| 5-4-D426C          | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is greater than 151 m3 storing a liquid with a maximum TVP less than 3.5 kPa.                   |
| 5-4-D491           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is less than 75 m3.   |



### Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

| Unit/Group/Process |                              | Regulation                                | Basis of Determination  |
|--------------------|------------------------------|---|---|
| ID No.             | Group/<br>Inclusive<br>Units |   |   |
| 5-4-D499           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity greater than 75 m3 but less than 151 m3 storing a liquid with a maximum TVP less than 15.0 kPa. |
| 5-4-P450           | N/A                          | 30 TAC Chapter 115, Industrial Wastewater | Wastewater stream has a VOC concentration less than 1000 ppmv.  |
| 5-5-D509A          | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity greater than 75 m3 but less than 151 m3 storing a liquid with a maximum TVP less than 15.0 kPa. |
| 5-5-D525           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is less than 75 m3.   |
| 5-5-D526           | N/A                          | 40 CFR Part 60, Subpart Kb                | Storage vessel capacity is greater than 151 m3 storing a liquid with a maximum TVP less than 3.5 kPa.                   |

**New Source Review Authorization References**

|  |           |
|--|-----------|
| <b>New Source Review Authorization References .....</b>                  | <b>73</b> |
| <b>New Source Review Authorization References by Emission Unit .....</b> | <b>74</b> |

### New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| <b>Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.</b> |                              |
|---|------------------------------|
| Authorization No.: 147317   | Issuance Date: 07/17/2017    |
| Authorization No.: 54190  | Issuance Date: 08/01/2012    |
| Authorization No.: 8074A  | Issuance Date: 10/25/2018    |
| <b>Permits By Rule (30 TAC Chapter 106) for the Application Area</b>  |                              |
| Number: 106.261   | Version No./Date: 11/01/2003 |
| Number: 106.262   | Version No./Date: 11/01/2003 |
| Number: 106.263   | Version No./Date: 11/01/2001 |
| Number: 106.264   | Version No./Date: 09/04/2000 |
| Number: 106.355   | Version No./Date: 11/01/2001 |
| Number: 106.478   | Version No./Date: 09/04/2000 |

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description         | New Source Review Authorization               |
|---------------------------|--|---|
| 5-1-05                    | PROPYLENE SKID ANALYZER BUILDING       | 8074A   |
| 5-1-31                    | OXO REFORMER STACK                     | 8074A   |
| 5-1-D161                  | I-BUTYRALDEHYDE / N-BUTYRALDEHYDE DRUM | 8074A   |
| 5-1-D6                    | SYNGAS REFORMER CONDENSATE KO          | 8074A   |
| 5-1-FL90                  | SYNGAS FLARE                           | 8074A   |
| 5-1-H1                    | SYNGAS REFORMER                        | 8074A   |
| 5-1-T50                   | SYNGAS SCRUBBING TOWER                 | 8074A   |
| 5-2-02                    | OXO FLARE (FL200)                      | 8074A, 106.261/11/01/2003, 106.262/11/01/2003 |
| 5-2-03                    | OXO FLARE (FL200A)                     | 8074A, 106.261/11/01/2003, 106.262/11/01/2003 |
| 5-2-04                    | ANALYZER BUILDING                      | 8074A   |
| 5-2-05                    | FLARE ANALYZER                         | 8074A, 106.261/11/01/2003, 106.262/11/01/2003 |
| 5-2-CT20                  | OXO COOLING TOWER                      | 8074A   |
| 5-2-D111                  | CATALYST ADDITION TANK                 | 8074A   |
| 5-2-D122                  | I-BUTYRALDEHYDE SURGE DRUM             | 8074A   |
| 5-2-D124                  | METHANOL STORAGE VESSEL                | 8074A   |
| 5-2-D132                  | PROPANE/WATER SEPERATOR DRUM           | 8074A   |
| 5-2-D155                  | CONCENTRATED CATALYST STORAGE          | 8074A   |
| 5-2-D158                  | CATALYST CONCENTRATOR DRUM             | 8074A   |
| 5-2-D202                  | I-BUTYRALDEHYDE TANK                   | 8074A   |
| 5-2-D204                  | NBA FEED TANK                          | 8074A   |
| 5-2-D208                  | R-825 AND NEOL FEED TANK               | 8074A   |

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description    | New Source Review Authorization |
|---------------------------|-----------------------------------|---------------------------------|
| 5-2-D209                  | IBA FEED TANK                     | 8074A                           |
| 5-2-FL200A                | OXO FLARE                         | 8074A                           |
| 5-2-FL200                 | OXO FLARE                         | 8074A                           |
| 5-2-FUGITIV               | OXO ALCOHOLS FUGITIVES            | 8074A                           |
| 5-2-R100                  | ALDEHYDE SYNTHESIS REACTOR        | 8074A                           |
| 5-2-T110                  | WASHING TOWER - ALDEHYDE RECOVERY | 8074A                           |
| 5-2-T120A                 | DEGAS TOWER                       | 8074A                           |
| 5-2-T220                  | ALDEHYDE SEPARATOR TOWER          | 8074A                           |
| 5-2-T230                  | ALDEHYDE HEAVIES TOWER            | 8074A                           |
| 5-3-D302                  | ENALIZATION PHASE DRUM            | 8074A                           |
| 5-3-D303                  | 2-ETHYLHEXENAL TANK               | 8074A                           |
| 5-3-D308                  | R-305/306 PRODUCT DEGASSING DRUM  | 8074A                           |
| 5-3-D309                  | 2-ETHYLHEXANOL TANK               | 8074A                           |
| 5-3-D325                  | 2-ETHYLHEXANOL CHECK TANK         | 8074A                           |
| 5-3-D326A                 | 2-ETHYLHEXANOL PRODUCT TANK       | 8074A                           |
| 5-3-D326B                 | 2-ETHYLHEXANOL PRODUCT TANK       | 8074A                           |
| 5-3-D399                  | EP-204 STORAGE TANK               | 8074A                           |
| 5-3-P302                  | PUMP                              | 8074A                           |
| 5-3-R305                  | HYDROGENATION REACTOR             | 8074A                           |
| 5-3-R306                  | HYDROGENATION REACTOR 2           | 8074A                           |
| 5-3-T310                  | 2 EH FORERUNS TOWER               | 8074A                           |

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description      | New Source Review Authorization               |
|---------------------------|-------------------------------------|---|
| 5-3-T320                  | SPLITTER TOWER                      | 8074A   |
| 5-3-T330                  | 2 EH HEAVIES TOWER                  | 8074A   |
| 5-4-2EHOLL                | E-ETHYLHEXANOL LOADING LAND         | 8074A   |
| 5-4-2EHOLM                | 2-ETHYLHEXANOL MARINE LOADING       | 8074A   |
| 5-4-31                    | THERMAL OXIDIZER (TO-5)             | 8074A, 106.261/11/01/2003, 106.262/11/01/2003 |
| 5-4-D409A                 | CRUDE N-BOL STORAGE TANK            | 8074A   |
| 5-4-D422                  | NBOL PRODUCT DRUM                   | 8074A   |
| 5-4-D425                  | NBOL CHECK TANK                     | 8074A   |
| 5-4-D426A                 | NBOL PRODUCT STORAGE TANK           | 8074A   |
| 5-4-D426B                 | 2-ETHYLHEXANOL PRODUCT STORAGE TANK | 8074A   |
| 5-4-D426C                 | 2-ETHYLHEXANOL PRODUCT STORAGE TANK | 106.478/09/04/2000                            |
| 5-4-D491                  | EP-203 STORAGE TANK                 | 8074A   |
| 5-4-D499                  | EP-202 STORAGE TANK                 | 8074A   |
| 5-4-IBALU                 | ISOBUTYRALDEHYDE UNLOADING          | 106.261/11/01/2003, 106.262/11/01/2003        |
| 5-4-LIBOL                 | ISO-BUTANOL LOADING                 | 8074A   |
| 5-4-LOAD                  | EXPERIMENTAL PRODUCT LOADING        | 8074A   |
| 5-4-NBOLL                 | N-BUTANOL LOADING LAND              | 8074A   |
| 5-4-NBOLM                 | N-BUTANOL MARINE LOADING            | 8074A   |
| 5-4-P450                  | PUMP                                | 8074A   |
| 5-4-P511                  | PUMP                                | 8074A   |
| 5-4-R405                  | HYDROGENATION REACTOR I             | 8074A   |

### New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

| Unit/Group/Process ID No. | Emission Unit Name/Description | New Source Review Authorization               |
|---------------------------|--------------------------------|---|
| 5-4-R406                  | HYDROGENATION REACTOR II       | 8074A   |
| 5-4-T410                  | NBOL DISTILLATION TOWER        | 8074A   |
| 5-4-T420                  | NBOL FINISHING TOWER I         | 8074A   |
| 5-4-T423                  | NBOL FINISHING TOWER II        | 8074A   |
| 5-4-T430                  | NBOL HEAVIES TOWER             | 8074A   |
| 5-4-T450                  | NBOL STRIPPER                  | 8074A   |
| 5-5-D509A                 | IBOL CRUDE TANK                | 8074A   |
| 5-5-D525                  | CHECK TANK                     | 8074A   |
| 5-5-D526                  | IBOL PRODUCT STORAGE           | 8074A   |
| 5-5-R505                  | HYDROGENATION REACTOR I        | 8074A   |
| 5-5-R506                  | HYDROGENATION REACTOR II       | 8074A   |
| 5-5-R507                  | HYDROGENATION REACTOR III      | 8074A   |
| 5-5-R820                  | HYDROGENATION REACTOR          | 8074A   |
| 5-5-R825                  | HYDROGENATION REACTOR          | 8074A   |
| 5-5-T510                  | ISOBUTANOL FORERUNS TOWER      | 8074A   |
| 5-5-T520                  | ISOBUTANOL FINISHING TOWER     | 8074A   |
| PROOXO                    | SYNGAS OXO MANUFACTURING UNIT  | 8074A, 106.261/11/01/2003, 106.262/11/01/2003 |

**Appendix A**

**Acronym List ..... 79**



## Acronym List

The following abbreviations or acronyms may be used in this permit:

|                  |   |
|------------------|---|
| ACFM             | actual cubic feet per minute  |
| AMOC             | alternate means of control  |
| ARP              | Acid Rain Program   |
| ASTM             | American Society of Testing and Materials                                 |
| B/PA             | Beaumont/Port Arthur (nonattainment area)                                 |
| CAM              | Compliance Assurance Monitoring   |
| CD               | control device  |
| CEMS             | continuous emissions monitoring system                                    |
| CFR              | Code of Federal Regulations   |
| COMS             | continuous opacity monitoring system                                      |
| CVS              | closed vent system  |
| D/FW             | Dallas/Fort Worth (nonattainment area)                                    |
| EP               | emission point  |
| EPA              | U.S. Environmental Protection Agency                                      |
| EU               | emission unit   |
| FCAA Amendments  | Federal Clean Air Act Amendments  |
| FOP              | federal operating permit  |
| gr/100 scf       | grains per 100 standard cubic feet  |
| HAP              | hazardous air pollutant   |
| H/G/B            | Houston/Galveston/Brazoria (nonattainment area)                           |
| H <sub>2</sub> S | hydrogen sulfide  |
| ID No.           | identification number   |
| lb/hr            | pound(s) per hour   |
| MACT             | Maximum Achievable Control Technology (40 CFR Part 63)                    |
| MMBtu/hr         | Million British thermal units per hour                                    |
| NA               | nonattainment   |
| N/A              | not applicable  |
| NADB             | National Allowance Data Base  |
| NESHAP           | National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61) |
| NO <sub>x</sub>  | nitrogen oxides   |
| NSPS             | New Source Performance Standard (40 CFR Part 60)                          |
| NSR              | New Source Review   |
| ORIS             | Office of Regulatory Information Systems                                  |
| Pb               | lead  |
| PBR              | Permit By Rule  |
| PEMS             | predictive emissions monitoring system                                    |
| PM               | particulate matter  |
| ppmv             | parts per million by volume   |
| PRO              | process unit  |
| PSD              | prevention of significant deterioration                                   |
| psia             | pounds per square inch absolute   |
| SIP              | state implementation plan   |
| SO <sub>2</sub>  | sulfur dioxide  |
| TCEQ             | Texas Commission on Environmental Quality                                 |
| TSP              | total suspended particulate   |
| TVP              | true vapor pressure   |
| U.S.C.           | United States Code  |
| VOC              | volatile organic compound   |